TABLE OF CONTENTS

ACKNOWLEDGEMENTS

The sincere appreciation of the Water Commissioner is expressed to Mr. Wayne D. Criddle, State Engineer, and to his fine staff of personnel at the State Capitol. Special thanks goes to Mr. Don Norseth, Distribution Engineer and Mr. Robert Guy, Area Engineer for the Uintah Basin Area, for their cooperation and assistance in distribution of the Vernal Area System.

Thanks is also made to the Executive Committee, composed of members from Ashley Creek, Brush Creek and Pot Creek for support, advice and help given to the Commissioner during 1963 irrigation season.

To Dayl Webb and his fine staff in the Vernal U.S.G.S Office, Bob Oliver and staff of the Bureau of Reclamation and all others who helped in any way, the Commissioner expresses his appreciation

Vernal, Utah
January 28, 1963

LETTER OF TRANSMITTAL

Mr. Wayne D. Criddle
State Engineer
Salt Lake City, Utah

Dear Sir:

In accordance with the authority granted by your appointment I submit herewith the report on the distribution of the waters of the Ashley Creek, Brush Creek, and Pot Creek Rivert Systems for the year 1963.

Respectfully yours,

David R. Rasmussen

David R. Rasmussen
Water Commissioner

WATER SUPPLY

Compared to 1962, the irrigation season for 1963 was drastically short of water. On Ashley Creek, records indicate that a total of 48,060 acre feet was measured at the U.S.G.S. Sign of the Maine, Gaging Station in 1963 as compared with 132,500 acre feet in 1962. The Dry Fork Supply for 1963 was 26.5% of 1962.

On Brush Creek a total flow in 1963 of 12,520 acre feet as compared with 36,520 acre feet in 1962, indicates the same general shortage. These figures represent a supply of only 33.3% of the 1962 flow.

Pot Creek was hardest hit of all the systems with only 379 acres feet measured in 1963 as compared with 7,410 acre feet in 1962. This represents a supply in 1963 of only 5% of the 1962 flow.

Oaks Park Reservoir failed to fill as did the East Park Reservoir at the head of Little Brush Creek.

Even with the water supply running only one-third of the previous year, the users, under the Ashley Creek System, faired fairly well, due to the initial operation of the Steinaker Project. Between April 6 and November, 1963, a total of 10,102 ac. ft. were released to supplement the Primary Rights and Ashley Valley Reservoir Stock. Without the project, most of this water would not have been beneficially used in Ashley Valley. As it turned out, farmers in the area generally produced as much per acre as in 1962. The value of having water available in desirable quantities, when needed, was realized due to the storage project, with substantital yield, even on a dry year as the end result.

Our experience on Ashley Creek with the Steinaker Project points out the need and practicability of a similar project on Brush Creek. The proposed Tyzack Dam would enable Brush Creek Water Users to enjoy the same advantages of Ashley Creek Users. Records show that during periods of high water and during winter months, many thousands of acre feet of water ran down the stream and into Green River. This same water could be stored and increase the production of land along Brush Creek and in Jensen, where the water is primarily used. Serious efforts should be made to promote this project or a similar one as soon as practically possible.

Pot Creek, having only 5% as much water in 1963 as in 1962, would have been practically dry without the existing on-stream reservoirs. The Matt Warner held water over from 1962, enabling fish culture and irrigation after the fish were removed. The Crouse Reservoir caught what run-off there was and enabled irrigation of lands at the mouth of the Crouse Canyon. Perhaps more reservoirs on Pot Creeks lower reaches are the answer to stockwatering and irrigation problems there. On a year such as 1962, enough water went on into Green River to carry stockmen in the area for at least one year had it been stored in a Reservoir of significant size. As it turned out, the Area was critically short of even stock water, not to mention any irrigation.

IRRIGATION SEASON

Distribution and records were begun on all three systems, April 1 with the exception of Brush Creek where distribution started in March. Due to the open winter and extremely dry conditions, irrigation started earlier than normal on the lower part of Brush Creek System.

Distribution continued on through the summer and to October 31 where water supply permitted. Pot Creek was essentially completed as soon as Pot Creek Records were available and any water going to lower users was released.

For a complete run down on daily distribution on individual systems, see the records section of this report.

DEPUTY COMMISSIONER

Lynn Meacham of Dry Fork, was appointed Deputy Commissioner from April 1, 1963 through August 31, 1963. He was assigned Brush Creek as a major job and filled in on Ashley Creek and Pot Creek as needed. Due to the many miles of diversions, it is imperative that a Deputy be hired in order to get around to all diversion points regularly. It is recommended that the deputy be hired for at least six months each year, beginning in April and continuing on through September.

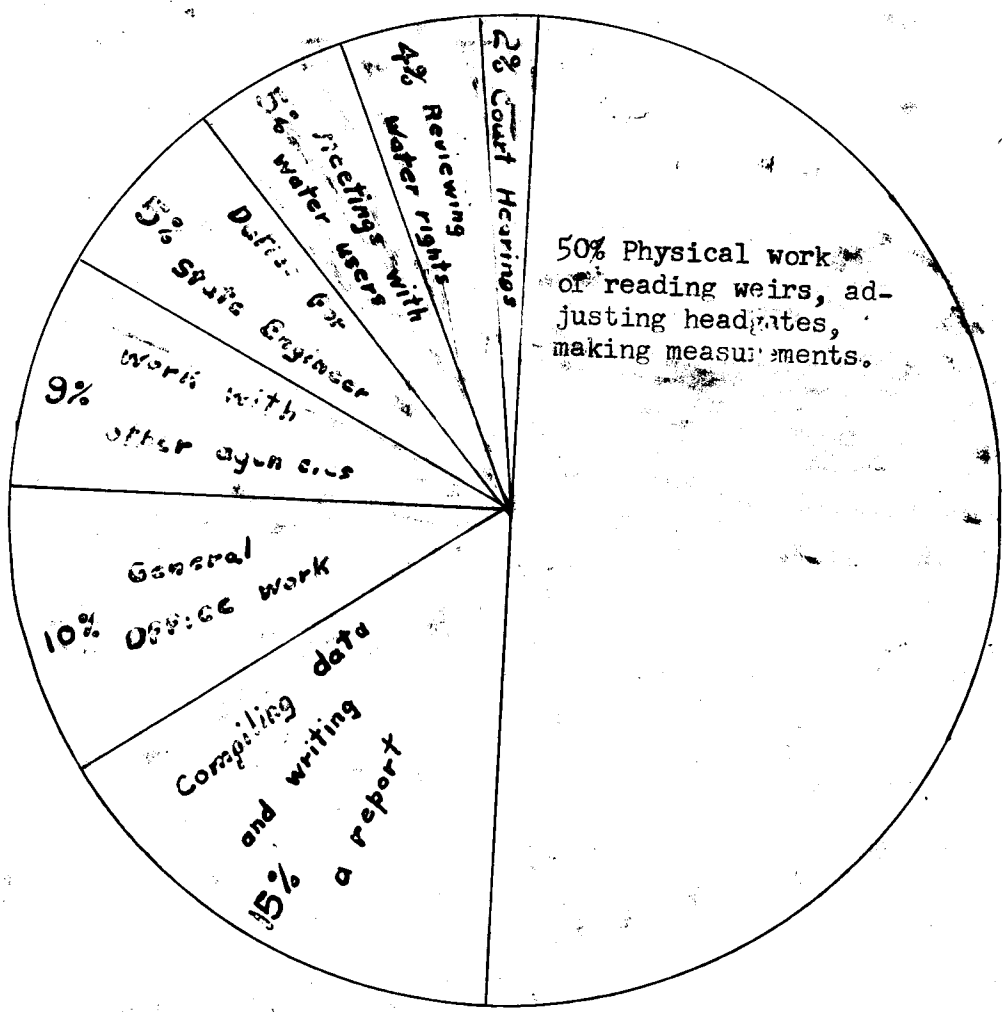
MEASURING DEVICES

Although some progress has been made over 1962, in installing and repairing measuring devices, a serious need still exists in some areas on the combined systems. Automatic recorders now in use, are invaluable and need to be installed on some of the larger canals that do not have them. More detailed recommendations concerning measuring devices are contained in the separate section recommendations of this report.

JOB	Percent of time used
Physical work involved in traveling to and from diversion points, reading weirs, adjusting headgates and taking measurements.	50%
Compiling data and writing a report of water distribution during 1963 by the Water Commissioner.	15%
Doing general office work and organizing a system of collecting and recording data.	10%
Working with personnel from other agencies concerned with water supply and utilization. U.S.G.S, Soil Conservation Service, Bureau of Rec.	9%
Investigations and duties requested by the State Engineer's Office.	5%
Attending special and general meetings with water users.	5%
Reviewing and determining water rights.	4%
Attending court hearings as a witness or representative of the State Engineer.	2%

A graphical distribution of time is given in figure 1.

FIGURE 1. TIME DISTRIBUTION OF VERNAL AREA WATER COMMISSIONER * 1963



SUMMARY OF ACTIVITIES ON ASHLEY CREEK DISTRIBUTION FOR IRRIGATION SEASON 1963

Distribution and record-keeping on Ashley Creek began April 1, 1963. At this time, the flow was around 15.0 to 18 cfs. Prior to this date most of the flow had been diverted into Steinaker Reservoir for hold-over until the irrigation season. Water for stock had been left in the Upper Canal as well as the Rock Point and Island Ditch. Due to the small flow, the Central Canal had decided not to try to split their share of the flow, and continued to allow their share to go into the Steinaker Reservoir. The Rock Point Canal and the Island Ditch also agreed to let most of their water go into Steinaker, leaving only a small flow necessary for stock water. This procedure continued until around May 5, when the first sign of spring run-off appeared. At this time, Steinaker Reservoir contained around 15,000 ac. ft. for irrigation purposes. The high water continued until around the middle of June, reaching a peak of 628 cfs. on May 19. During this period, distribution was difficult, due to the daily fluxuations caused from heavy periods of thaw during the days and cooling off at nights. Distribution was attempted, using the decreed division for primary rights, with the balance going into the Steinaker Reservoir for storage. Generally speaking, most of the water during the day, or low-flow time of day, was used for irrigation and the Reservoir came in for storage during the night or high flow period of the day.

In addition to the decreed rights on primary water, the Bureau of Reclamation contract's with the various canal companies, limited each canal to a certain amount of water during April, May, and June.

APPORTIONMENT OF STREAM FLOW

HIGHLINE CANAL	714 Acres	% By Month	Ac. Ft. Per Acres.
April	---		
May	911	4.8%	4.0 a.f.
June	1083	17.0%	4.0 a.f.
		20.2%	4.0 a.f.
TOTAL	1994	42.0%	

ALTA DITCH	276 Acres 1.4% Stream Flow	% By Month	Ac. Ft. Per Acres.
April	77	4.8%	4.0 a.f.
May	911	17.0%	4.0 a.f.
June	301	20.2%	3.7 a.f.
TOTAL	1289	42.0%	

ASHLEY UPPER	6050 Acres 31.9% Stream Flow	% By Month	Ac. Ft. Per Acre
April	1772	4.8%	4.0 a.f.
May	6274	17.0%	4.0 a.f.
June	6893	20.2%	3.7 a.f.
TOTAL	14,959	42.0%	

COLTON DITCH	213 Acres 3.7% Stream Flow	% By Month	Ac. Ft. Per. Acre
April	44	4.8%	4.0 a.f.
May	160	17.5%	4.0 a.f.
June	185	20.3%	4.0 a.f.
TOTAL	389	42.6%	

ASHLEY CENTRAL	4743 Acres 33.9% Stream Flow	% By Month	Ac. Ft. Per. Acre
April	1320	4.8%	4.0 a.f.
May	4674	17.0%	4.0 a.f.
June	5134	20.2%	3.7 a.f.
TOTAL	11,128	42.0%	

HARDY DITCH	47 Acres 0.3% Stream Flow	% By Month	Ac. Ft. Per. Acre
April	10	4.8%	4.0 a.f.
May	36	17.0%	4.0 a.f.
June	40	20.2%	4.0 a.f.
TOTAL	86	42.0%	

ROCK POINT	1264 Acres 20.2% Stream Flow	% By Month	Ac. Ft. Per. Acre
April	182	2.8%	4.25 a.f.
May	1315	20.2%	4.25 a.f.
June	1229	20.2%	4.25 a.f.
TOTAL	2776	43.2%	

ISLAND DITCH	259 Acres 7.6% Stream Flow	% By Month	Ac. Ft. per Acre
April	158	4.8%	4.0 a.f.
May	561	17.0%	4.0 a.f.
June	616	20.2%	3.7 a.f.
TOTAL	1335	42.0%	

DODDS DITCH	43 Acres 1.0% Stream Flow	% By Month	Ac. Ft. per Acre
April	20	4.8%	4.0 a.f.
May	72	17.0%	4.0 a.f.
June	79	20.2%	3.7 a.f.
TOTAL	171	42.0%	

For daily records of the flow in each canal see the records section of the Ashley Creek Report.

On May 25, I was successful in driving to the Long Park Reservoir and the Leidy Peak Canal, which diverts water into the Ashley Creek side. At this time the canal was running 1.82 cfs. This flow was increased by repairing and cleaning the ditch a few days later. I also visited Oaks Park Reservoir on this day. The sloping gage showed a level of 30.6 feet.

On May 29, at 6:00 p.m., 25.0 cfs of "S" Stock was turned into the highline canal. This was our first attempt to exchange primary water for Steinaker Water. The exchange was accomplished by replacing in Central Canal Area, 25.0 cfs. out of the Steinaker Reservoir through the New Service Canal. Water was either turned directly into laterals from the Service Canal or returned to the Central Canal near the Amos Merkley Farm. This system of exchange works very well as long as the flow of Ashley Creek is great enough to take care of the "S" Water calls, as well as the primary rights above the service canal. Later in the irrigation season, the decreased flow of Ashley Creek caused some delay in our ability to deliver "S" water above the Service Canal.

On June 6, I went to Blanchett Park and shut off the Mosby Canal and turned the water down Dry Fork Canyon as per agreement with the Mosby Irrigation Company. By this time, the flow of Ashley Creek was down to 200 cfs.

On June 8, I returned to Oaks Park Reservoir to remove and check the recorder tape. I found that the float tape had lodged and the record was practically worthless. At this time the reservoir had a level of 35.3 feet and 10.0 cfs. was being released on down Brush Creek to take care of the inflow. On July 9, the first Ashley Valley Reservoir water was delivered to the Highline Canal. Deliveries continued on through the summer above the Service Canal. Reservoir water that should have gone below the service canal was exchanged for "S" water and held above the service canal as "S" Stock. See the records section of the Ashley Creek Report for daily deliveries in any given canal.

Vernal City water was recorded as used, by an automatic continuous recorder located on the pipe line at Merkley's Park. During period of high water, Vernal City Canal Stock in the Central and Upper Canals, took care of the water being used. As the stream flow decreased, "S" Stock belonging to Vernal City was exchanged to make up the difference between what was being used and what the flow-share for Vernal City was. The consumption of water by Vernal City ran from a high of 7.5 to 8.0 cfs. during July and August to a low of 3.0 during October and November. In addition to stock in the canals, the city also has a filing for a continuous flow of .56 cfs. from the Hullinger Well near the mouth of Dry Fork Canyon. See Page 15 for complete run down of Vernal City water rights.

The experience gained from one and one half seasons of distribution on Ashley Creek and the intergration of the new Steinaker Project, points out many needs for improvements in operation as well as a need for the installation and repair of many of the existing diversion structures and measuring devices. The following recommendation point out what I feel mights be done to improve the system and assure every water user his fair share of water delivered to him.

1. A water master--ditch rider training school should be held prior to the beginning of irrigation season in order that more uniform methods of distribution be used for all canal companies. The county agent and soil conservation service could be involved in teaching and as resource people.

2. A meeting of the Ashley Creek Water Users should be held prior to the 1964 irrigation season, in order that 1963 distribution could be discussed and reviewed.

3. Headgates and measuring devices should be installed and repaired wherever needed before any water is delivered in 1964. Demands must be uniform and include all users in the system. (As was pointed out in the 1963 Commissioners Report, the dividing weir at the head of the Rock Point, Dodds, Island and Central Canals, is in worthless condition and must be replaced or repaired before any distribution in 1964. Pressure from backing up water during 1963 has caused the cement wings to break and accurate division of water is impossible at this structure.)

4. A closer communications system should be worked out between canal companies, water masters, Ashley Valley residence and the commissioner. This is a real problem requiring many extra miles and hours each week. Mobil telephones on a central office system should be considered to remedy this problem.

5. A meeting of the executive officers of the system should be called whenever deemed necessary in order that any problems may be worked out as they come up.

6. A closer working relationship with the Bureau of Reclamation and the conservancy district should be established in order that maximum storage in Steinaker may be obtained. One experience in 1963 indicates the value of saving some water for later use. An interpretation of the conservancy district's contracts with the various canal companies would also be helpful again this year in order that all users may better understand what to expect as far as early water is concerned.

DRY FORK

Dry Fork Tributary to Ashley Creek began flowing at the springs on May 11, 1963, and increased to a peak flow of 304 cfs. on May 21. From that date, it

gradually tapered down to zero by July 2. Smaller Springs located on down the canyon, continued for some time later but were generally dry sooner than in 1962. The flow lasted long enough to give users in the Dry Fork Area, around 40 days of irrigation water as compared with around 95 days in 1962. The total flow in acre feet for 1963 was 9,790 as compared to 34,720 in 1962.

In checking the difference between the measurements made at the springs up the canyon above the ranches, and the measurements made at the mouth of Dry Fork, below the ranches, we find that a difference of 2,780 ac. ft. exists. This is a relative figure of how much water was used for irrigation during 1963 in Dry Fork. This figure does not, however, represent with any accuracy the total amount of water diverted since a large portion of all diverted water returns to the creek channel. Many of the fields along this narrow canyon have short irrigation runs and are sloped steeply towards the creek.

At the present time there are still no measuring devices in the Dry Fork Area. Past years have been operated by taking what you could use, if it was available. Towards the end of the flow, the Dry Fork Irrigation Company has rotated turns until the supply ran out. Some of the lower ranches have a garden stream from various smaller springs along the canyon.

On years such as 1963, when the flow of Dry Fork was approximately 30% of a normal year, there may be a need for closer distribution. In the event that the Dry Fork Pipe Line Project is completed, a definite distribution schedule will have to be set up and followed in order that all rights are satisfied.

MOSBY IRRIGATION COMPANY

According to agreements made between the Ashley Valley water users and Mosby Irrigation Company, the water coming down Dry Fork Canyon from Blanchett Park was turned off and diverted into the Mosby transmountain canal on July 1. Mosby continued to use this water for the remainder of the irrigation season. At the present time, I have yet been unable to obtain records to indicate how much water was diverted through this canal.

Due to the relationship between Mosby and the Ashley Valley system, it may be well to consider adding Mosby to the Vernal Area Distribution system for future years. This will be especially true if the Dry Fork Project becomes a reality and agreements between the two systems have to be followed out.

IN THE FOURTH JUDICIAL DISTRICT COURT OF THE STATE OF UTAH

IN AND FOR UINTAH COUNTY

EBENEZER G. DEFRIEZ, et al,
Plaintiffs,

vs.

ASHLEY CENTRAL IRRIGATION COMPANY, et al,
Defendants,

and

ASENITH CHADWICK, et al,
Intervenors,

and

HIGHLINE CANAL COMPANY, ASHLEY VALLEY RESERVOIR COMPANY, DRY FORK IRRIGATION COMPANY, PITT DITCH COMPANY, DUAYNE T. JOHNSON, MORGAN MERKLEY, WILLIAM H. HULLINGER, CLARENCE .E JONES, HENRY PELTIER and GLEE C. PELTIER, VIRTUS MCCONKIE and SADIE MCCONKIE, ARUS CALDWELL, LAWRENCE CALDWELL, and UNITED STATES BUREAU OF RECLAMATION.
Defendants.

DECREE ADDING PARTIES AND ORDER APPOINTING WATER COMMISSIONER

Civil No. 3197

The motion of the Ashley Upper Irrigation Company, The Colton Ditch Company, the Steinaker Ditch Company, the Ashley Central Irrigation Company, the Hardy Ditch Company, the Island Ditch Company, the Dodds Ditch Company, and the Rock Point Irrigation Company representing the Plaintiffs and Defendants, or their successors in interest, in the above entitled action, hereinafter referred to as the owners of the primary water rights of Ashley Creek and its tributaries requesting that other users and persons claiming the rights to use water out of Ashley Creek and its tributaries be made parties defendant to this action and that the State Engineer be appointed as Water Commissioner of Ashley Creek and its tributaries to administer and distribute the waters thereof in accordance with the Decree of this Court in this case and the respective rights of the parties hereto, came on regularly for hearing this 15th day of May, 1962.

And it appearing to the Court that all of the parties above mentioned have been given due and legal notice of the said Motion in the manner and for the time required by the laws of the State of Utah.

And it further appearing that this Court has jurisdiction of the waters of Ashley Creek and its tributaries by reason of the Decree entered in this case on November 17, 1897, and to direct the administration and distribution of the waters of said Ashley Creek.

And it, further appearing that since the date of the said Decree, the parties hereto, who were not parties to the original action, have acquired, developed or claim a right to use some of the waters of Ashley Creek and its tributaries and that it is necessary that all parties having, or claiming rights in and to the waters of Ashley Creek or its tributaries be made parties to this action in order that all rights of the respective parties may be protected.

And it furtherappearing that in order to properly protect the rights of all parties hereto, administer and distribute the waters of Ashley Creek and its tributaries in a proper manner that it is necessary to have a Water Commissioner of Ashley Creek.

And it further appearing that the State Engineer of the State of Utah is competent and qualified to act as Water Commissioner of Ashley Creek and that due to the diversity of interest in the said waters, it is for the best good and welfare of all users thereof that the State Engineer be appointed as Water Commissioner of Ashley Creek.

NOW THEREFORE, IT IS HEREBY ORDERED, ADJUDGED AND DECREED:

1. That the Distribution Engineer of the State Engineer's Office of the State of Utah, is hereby appointed Commissioner of the waters of Ashley Creek and its tributaries which said creed is a tributary of Green River in Uintah County, State of Utah, for the period of one (1) year beginning May 15, 1962 or until further order of this Court and he is hereby directed to administer and distribute the waters of said Ashley Creek by himself or duly appointed deputies to the persons entitled to the use thereof in accordance with the laws of the State of Utah and the Decrees of this Court by which reference are made a part hereof.

2. That the said Commissioner shall name and appoint such deputy or deputies as he may need in distributing the water involved in this matter and he is hereby authorized to pay reasonable salary or wages and automobile mileage to such persons as he may employ in carrying out the provisions of this Decree and Order. Said Commissioner shall immediately submit for the approval of this Court, an estimate of the expense involved in carrying out the provisions of this Order which amount shall be paid to the Clerk of this Court on or before July 1, 1962, and forwarded by the Clerk to the State Engineer of the State of Utah to be placed in a Trust Fund Account and Disbursed under the direction of the Commissioner above named for paying the expenses involved in carrying out the provisions of this Decree and Order. The said amount shall be paid by the parties hereto in the following proportions:

1. Primary Water Users

The Primary Water Users to pay the 55% in the following proportions: 55%

Ashley Upper Irrigation Company	.327
Colton Ditch Company	.036
Steinaker Ditch Company	.020
Ashley Central Irrigation Company	.335
Hardy Ditch Company (out of Ashley Central Irrigation Company)	
Island Ditch Company	.074
Dodds Ditch Company	.070

	Rock Point Irrigation Company	.198
2.	Ashley Valley Reservoir Company	20%
3.	United States Bureau of Reclamation	15%
4.	All Other Users	10%

All other users to pay the 10% in the following proportions:

Highline Canal Company	.25
Dry Fork Irrigation Company	.15
Mosby Irrigation Company	.25
Pitt Ditch Company	.05
Duayne T. Johnson	.05
Morgan Merkley	.05
William H. Hullinger	.05
Clarence E. Jones	.05
Henry Peltier and Glee C. Peltier	.05
Virtus McConkie and Sadie A. McConkie	.05

3. That the said Commissioner shall distribute the waters of Ashley Creek and its tributaries in accordance with the terms of this Decree and the respective rights of the parties hereto as shown on the records of the State Engineer and as have been tentatively established by the State Engineer in his adjudication of the respective rights of the parties hereto. The rights of all parties, excepting those heretofore decreed by this Court, shall be temporarily established for the irrigation season of 1962 only and to be definitely established as soon as practical thereafter.

4. The said waters of Ashley Creek to be distributed at the weirs or points of diversion heretofore constructed by the respective parties and approved by this Court and where the said parties do not have proper weirs and measuring devices, they are hereby ordered to install the same in a manner to be approved by the said Commissioner which said devices shall be mechanical and constructed in a manner that will shut off the water from the respective ditches or canals when directed by the Commissioner to do so.

5. Each of the parties hereto shall at his or its own expense install a Parshall flume or other measuring device at the head of his or its ditch at a place and in a manner to be approved by the Commissioner.

6. That the respective parties hereto are hereby ordered to comply with the schedule of terms and other rules and regulations as they may be given by the said Commissioner and approved by this Court in the use of the waters they are entitled to under the terms of this Decree and the laws of the State of Utah.

7. The Commissioner and his deputies are hereby ordered and directed that in the event any of the parties hereto fail to comply with this order, to shut off the water of the said party and report the failure to this Court and such party shall not be permitted the use of any of the waters of Ashley Creek and its tributaries until further order of this court.

8. The Commissioner is hereby directed to file a report of his action concerning waters of Ashley Creek with this Court as soon after January 1, 1963, as may be practical.

DATED This 15th day of May, 1962

District Judge

PROPOSED WATER DELIVERY SCHEDULE FOR ASHLEY CREEK AND TRIBUTARIES (1

It is proposed to divide the water of Ashley Creek and Dry Fork in accordance with the decreed water rights as closely as can be followed. However, until these rights have been established on a more firm basis, the distribution as set out in the past, will be followed during the early part of 1963.

This schedule is as follows:

I. Firm Flow: Will be distributed pro-rated on the following schedule.

A. Water User or Canal	% of Flow
1. Ashley Upper Irrigation Co. Canal	36.3
2. Steinaker Ditch	2.0
3. Ashley Central Irrigation Co. Canal	33.5
4. Island Ditch	7.4
5. Dodds Ditch Co. Canal	1.0
6. Rock Point Irrigation Co. Canal	19.8

II. Transmountain Diversions, Applications, or Certificates will have water delivered in accordance with priority.

A. Ashley Valley Reservoir Company water is to be delivered from the Brush Creek Canal into the stockholders' canals on the basis of 90% of diversion with 10% being assessed as transmission charges.

B. Highline Canal Company water to be delivered in accordance with their applications.

C. U. S. Bureau of Reclamation water to be delivered through the Thornberg diversion as per applications.

D. All private diversions in accordance with their application rights.

III. Dry Fork rights will be delivered in accordance with the Dry Fork Decree with no release of low flow to the primary water rights of Ashley Creek, and all applications and certificates will be delivered water in accordance with their priority.

A. Mosby Irrigation Company will be delivered water in accordance with physical conditions and their application priority.

(1 This Schedule is to be applied as proposed until a more equitable schedule of all rights may be developed. Changes in this schedule will be made as additional information becomes available.

VERNAL CITY WATER RIGHTS

Ashley Central Irrigation Company	STOCK
Vernal City	44.3510 shares
Naples Water Co. (to be turned to Vernal City)	6.4670 shares
TOTAL	50.8180 shares

Ashley Upper Irrigation Company	
Vernal City	12.932 shares

Ashley Valley Reservoir Company	STOCK
Vernal City	1998.22 shares
Naples (to be turned to Vernal City)	265.25 shares
TOTAL	2263.47 shares

A.J. Johnson Right	
	0.33% stream flow

Steinaker Reservoir subscription	
Vernal City	750 acre feet
Naples Water Co. (to be turned to Vernal City)	200 acre feet
Ashley Water Co. (to be turned to Vernal City)	150 acre feet
Davis-Glines water Co. (to be turned to Vernal City)	300 acre feet
TOTAL	1400 acre feet

MINUTES OF VERNAL AREA
DISTRIBUTION SYSTEM MEETING

As Taken By State Engineer

Mr. Criddle, acting as chairman, opened the meeting at 8:30 P.M., March 4, 1963.

Mr. Criddle gave a brief history of distribution on Brush Creek and Pot Creek. He also mentioned that Ashley Creek would be distributed under Court Order as the State Engineer's Office is not aware of all the rights on Ashley Creek.

Mr. Criddle called on each system to name their representatives, on the 11-man committee. They are as follows:

Pot Creek
1. Bill Allen
2. Zelph Calder

Brush Creek
1. Bill Karren
2. N. J. Meagher, Jr.
3. Curt Dudley

The Brush Creek group was protested by Reed Taylor. Mr. Taylor claimed that little Brush Creek did not have any voice in the chosing of the representatives. Mr. Criddle suggested that these representatives represent Brush Creek for this meeting and in the future, the Brush Creek and Little Brush Creek Water Users get together and elect three (3) men to represent them.

Mr. N. J. Meagher, Jr. explained that the Brush Creek meeting was very informal.

Ashley Creek
1. Leon Christensen - representing Conservancy District
2. Davis Merkley - representing Rock Point, Dodds, Steinaker, Island.
3. Lynn Mecham - representing Ashley Creek above Ft. Thornburg diversion.
4. Ward Merkley - representing Ashley Central Canal.
5. Lowell Goodrich - Ashley Upper Canal.
6. Lynn Richens - representing Highline Canal and Ashley Valley Reservoir Company.

Mr. Criddle requested Mr. Frank Reese, Chief Accountant for the State Engineer's Office gave a breakdown of the 1962 financial statement for each system.

Mr. Reese gave this report.

Mr. Criddle gave a partial breakdown of the proposed 1963 budget for the combined Ashley, Brush and Pot Creek systems.

The meeting was opened to discussion.

Question - N. J. Meagher, Jr. - the proposed mileage allotment for 1963 appears to be high. (11,500 miles)

Answer - Mr. Criddle - This figure was based on the mileage traveled in 1962.
Question - Roland Merkley - Would Mr. Criddle give a complete breakdown of the proposed 1963 budget?
Answer - Mr. Criddle gave the complete breakdown of the 1963 budget.
Question - N. J. Meagher, Jr. - Will a breakdown of costs to each system be kept in the future?
Answer - Mr. Criddle - Yes, a breakdown of each system will be kept.
Question - Lynn Meacham - Will provision be made for the distribution of winter water on Ashley?
Answer - Mr. Criddle - Yes.
Question - Roland Merkley - How will this be done?
Answer - Mr. Criddle - The Commissioner will be appointed on a year around basis.
MOTION - Curt Dudley - I move that the proposed budget for 1963 be approved on a trial basis for one year.
SECOND - Glenn Murray.
Discussion on the motion - question
Zelph Calder - Has the Commissioner been appointed? Does the State Engineer have to take the recommendation of the committee?
Answer - Mr. Criddle - The Commissioner has not been appointed as yet. The State Engineer will take into consideration, the recommendation of the committee, but he does not have to appoint the Commissioner recommended by the committee.

Mr. Criddle called for a vote on the motion. The motion was carried by the majority. Zelph Calder opposed the motion.

The proposed assessment for the Vernal Area System (Table 2 - Breakdown of Vernal Area Costs of 1963) was included in the Motion without objection. This called for a total assessment of $ 6,277.82.

Curt Dudley suggested that the Committee meet and then make its recommendations to the State Engineer.

Mr. Criddle requested that the committee recommendations be presented to him by March 20, 1963.

Question - Lyle McKeachnie - How was the cost percentage (60% Ashley, 30% Brush, 10% Pot) for each system arrived at?
Answer - Mr. Criddle - Explained that the percentages were figured, using the acre feet delivery, mileage, time involved, etc., for each system.
Question - Lyle McKeachnie - Would the State Engineer accept a change, if the committee so recommended?
Answer - Mr. Criddle - The committees recommendations would be considered.

Meeting adjourned at 9:30 P.M.

The following is a list of those present: WATER USERS MEETING, March 4, 1963.
Ashley, Brush, and Pot Creeks.

Name	REPRESENT
Woodey B. Searle	Little Brush Creek
Roy D. Mills	Central Canal
Ward Merkley	Central Irrigation Company
Lynn Mecham	Dry Fork Irrigation Company

Albert Freestone	Rock Point
Lowe Goodrich	Central and Upper
Reed Taylor	Little Brush Creek and Rock Point
Lynn Richens	Ashley Valley Reservoir
Colton McKeachnie	Highline Canal
Lynn Martinsen	Mosby
Robert Cook	Ashley Upper Canal
Rex L. Gardner	Independent Water Right
Roland Merkley	Dry Fork Irrigation Company
Leon P. Christensen	Uintah Water Conservancy District
Lyle McKeachnie	Visitor
Joseph Calder	Pot Creek
Sam Sessions	Brush and Pot Creek
C. D. Dudley	Burns Bench Irrigation Company
L. Glenn Murray	Burton Ditch Company
Nick Meagher	Sunshine Ranch
Arthur Murray	- - - - - - - - - -
William Karren	Brush and Pot Creeks
Davis Merkley	Dodds Ditch
Wilford Evans	Little Brush Creek
Martin A. Evans	Brush Creek
Howard Ainge	Brush Creek
Rulon S. Hacking	Upper Ashley and Pot Creeks
William S. Allen	Pot Creek
Zelph Calder	Pot Creek
Peter H. Peterson	Bureau of Reclamation
Joe Dodds	Dodds Ditch
Sterling Cook	Dodds Ditch
Robert Guy	Area Engineer-State Engineer's Office
Edward Stevenson	State Engineer's Office
Wayne D. Criddle	State Engineer
Donald C. Norseth	Distribution Engineer-State Engr. Office
Frank Reese	Chief Accountant-State Engineer's Office

Minutes submitted by Robert F. Guy, Area Engineer

TABLE 1. VERNAL AREA DISTRIBUTION SYSTEM 1/
PROPOSED BUDGET FOR PERIOD JANUARY TO DECEMBER 31, 1963

ITEM	TOTAL COMBINED SYSTEMS
1. Commissioner's Salary Matching Social Security Matching State Retirement	$ 3,372.00 122.24 134.88
2. Deputy Commissioner's Salary Matching Social Security Matching State Retirement	1,300.00 47.13 52.00
3. Travel (11,500 miles at 10¢ per mile)	1,150.00
4. Bonds and Insurance Premium	50.00
5. Commissioner's Annual Report	225.00
6. Office Rent (Joint Office with State Engineer 1/3 of cost to be paid by system)	300.00
7. Telephone (Joint with State Engineer 1/3 of cost plus any toll charges to be paid by system)	120.00
8. System Equipment	500.00
9. Miscellaneous	76.75
10. Bank Reserves	1,000.00
TOTAL	$ 8,450.00

1/ Prepared by Frank Reese, Business Manager and Donald C. Norseth, Distribution Engineer.

VERNAL AREA DISTRIBUTION SYSTEM

1963 ASSESSMENT

$ 6,277.82 1/

1/ NOTE:

Commencing in 1963 this new distribution system is formed by the consolidation of three (3) separate distribution systems, i.e., Pot Creek, Brush Creek, Ashley Creek. Groups of these water users agreed to such a consolidation and that the bank reserves of each separate system as of December 31, 1962 be credited to their portion of the 1963 assessment. Also that such assessment was to be prorated on the following basis: 10% Pot Creek; 30% Brush Creek; 60% Ashley Creek.

PREPARATION OF THE 1963 ASSESSMENT

The minutes of the 1963 water users have approved a budget of $ 8,450.00 less Bank Reserves of $ 2,172.18. This leaves a net assessment of $ 6,277.82 which is then formulated in the following three (3) parts:

PART I

POT CREEK (10%)

A. Pot Creek water users pro-rata portion of the total 1963 Assessment is $ 845.00 less Bank Reserves of $ 475.09 which then leaves a net balance of $ 369.91 to be assessed.

B. The "Memorandum of Understanding" as revised for 1963 and approved by the State of Colorado and the State of Utah calls for a division of expense as follows:

Colorado	20%
Utah	80%
Total	100%

C. Colorado's share equals: . . . . . $ 73.98
Utah share equals. 295.93

Total $369.91

BASIS OF 1963 ASSESSMENT TO UTAH WATER USERS

The 1963 Utah assessment is based upon (2) two types of water rights

(1) Those having only stock water rights.
(2) Those having only irrigation water rights
  (1-A) Stock water rights are assessed a flat $ 10.00 for each such user.
  (2-B) Irrigation water rights are assessed upon an acre-foot basis of water as reported by the commissioner in his official 1962 report.

CALCULATION OF ASSESSMENT

Utah's share of the 1963 budget is $ 295.93. The first step is to determine the amount to be assessed of $ 10.00 stock water users and the State Engineer records list twenty (20) such accounts. Therefore, $ 200.00 deducted from $ 295.93 leaves a balance of $ 95.93 to be assessed against irrigation users.

The Commissioner's 1962 report shows a total of 2,498.00 acre-feet of water as having been released to such users and $ 95.93 divided by 2,498.00 acre-feet equals $ 0.0384027222 cost of one pro-rata acre-foot of water multiplied by the amount of acre-feet released by the commissioner to the "irrigators" accounts.

VERNAL AREA DISTRIBUTION SYSTEM

PART II

BRUSH CREEK (30%)

A. Brush Creek water users pro-rata portion of the total 1963 assessment is $ 2,535.00 less Bank Reserves of $ 543.94 which then leaves a net balance of $ 1,991.06 to be assessed.

B. There are three (3) types of assessed water users within this portion of the system, i.e.,

(1) Court ordered Brush Creek Users. (For identification called "a" Users.)

(2) Ashley Reservoir Company Users. (For identification called "b" Users.)

(3) Little Brush Creek Users. (For identification called "c" Users.)

C. It is noted that after the "a" Users went under distribution and for the State Engineer to make proper distribution for the system that "b" and "c" users were also invited to come under such distribution. At the annual 1960 Water Users meeting it was agreed that "b" Users would pay 10 percent of the annual assessment of the "a" Users and that the "c" Users would pay 50 percent of the "b" annual assessment.

CALCULATION OF THE 1963 ASSESSMENT

A. The first problem is to determine what the percentage is of the whole percentage for each of the three (3) types of users, referred to as a.b.c.

It is determined that the whole percentage is 115 and therefore:

"a" users is 100/115ths, "b" users is 10/115ths, "c" users is 5/115ths percent of the total 1963 assessment of $ 1,991.06, therefore:

"a" or 100/115ths equal 0.8695652180 percent
"b" or 10/115ths equal 0.0869565218 percent
"c" or 5/115ths equal 0.0434782609 percent.

B. The percentages obtained above are then multiplied against the 1963 assessment $ 1,991.06 as follows:

"a" assessment is	$ 1,731.36
"b" assessment is	173.14
"c" assessment is	86.56
Total 1963 assessment	$ 1, 991.06

C. The final step is to calculate the individual 1963 assessment within the "a" users which is set forth percentage-wise by court order and as noted by the percentage used for the Upper Brush Creek Users within the State Engineer's original 1959 formula.

PART III

ASHLEY CREEK (60%)

A. Ashley Creek Water users pro-rata portion of the total 1963 assessment is $ 5,070.00 less Bank Reserves of $ 1,153.15 which then leaves a net balance of $ 3,916.85 to be assessed.

B. Using the Court Order of 1962 (See 1962 Permanent File) the following percentage is used:

VERNAL AREA DISTRIBUTION SYSTEM

PART III (Cont'd)

1. Primary Users[1]	55% whose 1963 assessment is	$ 2,154.27
2. Ashley Valley Reservoir Co.	20% whose 1963 assessment is	782.37
3. U.S. Bureay of Reclamation	15% whose 1963 assessment is	587.53
4. All other users[2]	10% whose 1963 assessment is	391.68
	TOTAL.....	$ 3,916.85

RECAPITULATION

A. Part I (Pot Creek)

State of Colorado equal	73.98
Utah:	
Stock Water (20 acc'ts @ $10.00 each) equal . . .	200.00
Irrigators: $ 0.0384027222 times 2,498.00A/ft. equal	95.93
TOTAL	$ 369.91

Part II (Brush Creek)

Court Action-Brush Creek Users'	$ 1, 731.36
Ashley Reservoir Company	173.14
Little Brush Creek Users	86.56
TOTAL	$ 1,991 . 06

Part III (Ashley Creek)

Court Action - Primary Users	$ 2,154.27
Ashley Valley Reservoir Company	783.37
U. S. Bureau of Reclamation	587.53
Other Users	391.68
TOTAL	$ 3,916.85

B.

Part I	Total 1963 Assessment	$ 369.91
Part II	Total 1963 Assessment	1,991.06
Part III	Total 1963 Assessment	3,916.85
TOTAL 1963 ASSESSMENT		$6,277.82

Prepared by: /s/ Frank Reese

FRANK REESE
March 9, 1963

1/ See 1962 Permanent file for list of individual accounts.

2/ See 1962 Permanent file for list of individual accounts.

UNITED STATES DEPARTMENT OF THE INTERIOR--GEOLOGICAL SURVEY--WATER RESOURCES DIV.

Sta. No. 9, 2710.00

Daily discharge, in second feet of Ashley Creek, at Sign of the Maine, near Vernal, Utah for the year ending Sept. 30,"6

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	66	28	21	19	43	13	16	12	249	80	58	43
2	65	27	21	18	15	13	16	13	273	77	58	42
3	57	27	21	18	14	13	15	13	*365	77	59	39
4	54	27	21	20	14	13	13	15	309	76	63	34
5	79	27	20	20	14	13	13	36	218	72	68	31
6	84	25	16	21	13	13	13	92	180	72	60	33
7	79	24	17	*20	14	13	13	*171	170	69	54	35
8	71	23	18	20	14	13	16	275	145	65	54	43
9	62	23	18	18	13	13	15	351	139	79	53	40
10	56	24	18	18	13	13	14	*428	137	84	54	38
11	*52	24	16	18	13	13	13	*359	125	84	45	36
12	51	22	17	b15	b13	13	12	207	111	89	41	34
13	49	23	18	b15	b13	13	11	173	111	101	37	34
14	48	24	18	b15	13	13	11	282	115	108	34	34
15	49	26	18	14	13	13	14	335	118	*109	33	34
16	49	*25	18	14	13	14	15	392	111	109	37	*31
17	45	23	*18	14	13	14	14	472	118	105	39	34
18	40	23	19	14	13	14	13	606	172	95	44	64
19	37	21	19	14	13	14	12	628	145	90	42	98
20	35	21	20	b13	13	14	12	*562	129	90	*31	73
21	33	23	20	13	13	14	12	628	120	90	29	79
22	31	23	20	*13	13	14	12	512	113	92	30	79
23	31	23	20	13	13	15	*12	546	106	92	32	71
24	30	23	21	13	13	16	11	535	*97	94	31	65
25	30	23	b20	13	13	*15	11	436	92	86	31	62
26	30	23	b18	13	13	15	12	313	89	80	32	57
27	30	23	b17	13	13	15	13	317	86	76	28	53
28	30	22	b16	14	*13	18	13	294	84	69	28	51
29	29	21	b17	13	———	20	12	348	82	65	27	50
30	29	21	b19	13	———	16	12	361	80	65	29	49
31	29	———	b19	18	———	16	———	298	———	60	34	———
	1,460	712	579	487	401	439	391	10,010	4,389	2,600	1,295	1,466
Mean	47.1	23.7	18.7	15.7	14.3	14.2	13.0	323	146	83.9	41.8	48.9
Acre Feet	2,900	1,410	1,150	966	795	871	776	19,850	8,700	5,160	2,570	2,910

Note: No gage height record Oct. 17 to Nov. 15, Apr. 9.

Maximum discharge 915 cfs May 18

* Discharge measurement made on this day

b Stage-discharge relation affected by ice.

Mean-- 66.4

Acre Feet 48,060

UNITED STATES DEPARTMENT OF THE INTERIOR--GEOLOGICAL SURVEY--WATER RESOURSES DIV.

Sta. No. 9-2700

Daily Discharge, in second feet, of Dry Fork below springs, near Dry Fork, Utah for year ending Sept. 30, 1963

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0	118	1.1	0	
2								0	118	0	0	
3								0	167	0	0	
4								0	126	0	0	
5								0	*89	0	.1	
6								* 0	71	0	0	
7								0	66	0	0	
8								0	55	0	0	
9								0	50	0	0	
10	*						*	0	47	0	0	
11								* 4.3	44	0	0	
12								27	37	0	0	
13								*31	36	0	0	
14								34	38	0	0	
15								48	42	0	0	
16								*104	42	*0	0	*
17								173	40	0	0	
18								285	51	0	0	
19								303	46	0	0	
20								274	40	0	0	
21								*304	35	0	0	
22								243	32	0	0	
23								243	30	0	0	
24								230	26	0	0	
25								185	22	0	0	
26								134	*17	0	0	
27								147	12	0	0	
28								*142	8.3	0	0	
29								182	5.7	0	0	
30								183	3.3	0	0	
31								146			0	
	0	0	0	0	0	0	0	3,422.3		1.1	0.1	0

Mean	0	0	0	0	0	0	0	110	50.5	0.04	0.003	0
Acre Feet	0	0	0	0	0	0	0	6,790	3,000	2.2	0.2	0

Max. discharge 425 cfs May 18 Year Mean 13.5 Acre Feet 9,790

* Discharge measurement or observation of no flow made on this day.

UNITED STATES DEPARTMENT OF THE INTERIOR--GEOLOGICAL SURVEY--WATER RESOURCES DIV.

Sta. No. 9-2705

Daily discharge, in second-feet of Dry Fork at mouth, near Dry Fork, Utah, for the year ending Sept. 30, 1963

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	1.9	1.9			1.7	1.0	1.0	91	3.8	0.1	0.3
2	1.5	2.0	1.9			1.7	1.0	.8	96	2.5	0	0.2
3	1.4	2.0	2.0			1.9	1.0	.8	129	2.3	0	.1
4	1.5	2.0	1.9			1.6	.9	.8	108	1.6	.1	.1
5	5.7	2.0	1.9			1.5	.9	.6	*70	.3	.3	.1
6	3.0	2.0	b1.9	b0.5		1.6	.9	.4	50	.2	.7	.1
7	2.0	2.0	1.9			1.5	1.0	.2	47	.2	.3	.3
8	1.9	2.0	1.7			1.7	1.6	.1	38	.3	.1	.3
9	*1.7	1.9	1.7			1.6	1.7	0	29	.3	.1	.4
10	1.7	1.9			0.8	1.6	1.0	0	26	.3	.2	.4
11	1.9	1.7				1.4	.8	0	20	.2	.2	.8
12	1.9	1.7	1.7			1.4	.7	0	6.8	.2	.1	1.0
13	1.9	*1.7				1.2	.7	0	5.4	.2	.1	1.0
14	2.0	1.7				1.0	.7	.9	8.4	.2	.1	1.1
15	2.0	2.3	1.7			1.2	.8	.3	9.7	*.2	.1	.3
16	2.0	2.8				1.2	.9	*25	12	.2	.1	.5
17	2.0	2.0	*1.7			1.2	1.0	71	14	.3	.1	.5
18	2.3	1.9				1.3	1.0	155	30	.3	.2	.3
19	2.3	2.0	1.4			1.4	.8	226	32	.3	.2	.5
20	2.3	2.3				1.6	.8	196	23	.3	.2	.3
21	2.3	2.5	1.4	**.3		1.9	.9	226	18	.3	.2	.3
22	2.0	2.5			1.5	2.0	1.0	173	16	.4	.2	.2
23	2.0	2.3				2.3	*1.0	*189	15	.4	.3	.2
24	1.9	2.3	1.0		2.0	1.5	1.0	178	* 8.4	.5	.2	.1
25	1.9	2.3			2.0	1.3	.9	151	7.2	.4	.2	.2
26	1.9	2.3			1.7	1.2	1.0	104	7.2	.4	.2	.2
27	1.9	2.3			*1.7	1.2	1.7	106	4.4	.2	.1	.2
28	1.9	2.3	.5		1.9	2.6	1.5	*99	4.1	0	0	.2
29	1.9	2.0				1.9	1.3	127	4.1	0	0	.2
30	1.9	2.0				1.1	1.1	137	3.8	0	0	.2
31	1.9					1.0		112		0	.1	
	64.0	62.6	43.7	11.7	29.8	47.3	30.6	2,280.9	933.5	16.8	4.8	10.6
Mean	2.06	2.09	1.41	0.38	1.06	1.53	1.02	73.6	31.1	0.54	0.15	0.35
Acre Feet	127	124	87	23	59	94	61	4,520	1,850	33	9.5	21

a No gage-height record (stage-discharge relation affected by ice during most of period).
b Stage-discharge relation affected by ice.
* Discharge measurement made on this day.
** Field estimate made on this day.

Year Mean 9.69
Acre Feet 7,010

DAILY DISTRIBUTION FOR

Ashley Creek

DATE	U.S.B.R.	VERNAL	ROCK POINT			CENTRAL			ISLAND		
APRIL	Feeder Canal	Prim. Exch.	Prim.	A. V. Res.	Stk. C. Stock	Prim.	A. V. Res.	Stk. C. Stock	Prim.	A. V. Res.	Stk. C. Stock
1	15.0		1.75						.50		
2	15.0		1.75						.50		
3	14.0		1.75						.50		
4	13.0		1.10						.50		
5	12.0		1.10						.50		
6	8.0		1.25						.50		
7	9.0		1.0						.50		
8	11.0		1.0						.50		
9	13.0		1.0						.50		
10	10.0		1.0						.50		
11	8.0		1.0						.50		
12	6.0		1.0						.50		
13	6.0		1.0						.50		
14	7.0								.50		
15	8.0								.50		
16	13.0								.50		
17	12.0								.50		
18	12.0								.50		
19	10.0								.50		
20	10.0								.50		
21	10.0								.50		
22	11.0								.10		
23	12.0								.10		
24	8.0								.10		
25	8.0		1.0						.10		
26	6.0		1.0						.10		
27	12.0		1.0						.15		
28	12.0		.75						.10		
29	11.0		.75						.10		
30	8.0		.75						.10		
31											
Total Month	310.00		20.95						11.45		

* Exchanges with Primary Water

WATER ABOVE SERVICE CANAL

Distribution System

UPPER			HIGHLINE			DODDS	TOTAL	TOTAL	TOTAL	TOTAL DEL.
Prim.	A. V. Stk. Res.C.	Stk. Alta Prim.	Leidy Peak	A. V. Stk. Res.C.	Stk. Appl. 4796	Prim.	Stk.	A. V. Res.C.	Prim-ary	All Sources
5.0									22.25	22.25
8.0									25.25	25.25
6.0									22.25	22.25
5.0									19.60	19.60
7.0									20.60	20.60
8.0									17.75	17.75
8.0									18.50	18.50
8.0									20.50	20.50
9.0									23.50	23.50
8.0									19.50	19.50
8.0									17.50	17.50
5.5									13.00	13.00
5.5									13.00	13.00
5.5									13.00	13.00
6.0									14.50	14.50
5.0									18.50	18.50
4.0									16.50	16.50
4.0									16.50	16.50
4.0									14.50	14.50
4.0						.35			14.85	14.85
4.0						.35			14.85	14.85
4.0						.16			15.26	15.26
5.0						.16			17.26	17.26
6.0						.16			14.26	14.26
5.0						.16			14.26	14.26
4.0						.16			11.26	11.26
4.0						.16			17.31	17.31
4.0						.16			17.01	17.01
7.0						.16			19.01	19.01
6.0						.16			15.01	15.01
172.50						2.14			517.04	517.04

DAILY DISTRIBUTION FOR

Ashley Creek

DATE	U.S.B.R.	VERNAL		ROCK POINT			CENTRAL			ISLAND		
MAY	Feeder Canal	Prim.	Exch.	Prim.	A. V. Res.C.	Stk. Stock	Prim.	A. V. Res.C.	Stk. Stock	Prim.	A. V. Res.C.	Stk. Stock
1	4.0						6.0			1.0		
2	4.0						7.0			1.46		
3	4.0						7.0			1.46		
4	4.0						6.0			1.46		
5	7.0						12.0			2.53		
6	20.0						20.0			4.0		
7	23.0						30.0			4.57		
8	23.0			4.0			44.0			9.30		
9	45.0			37.3			75.0			14.70		
10				36.0			84.0			13.9		
11				36.0			102.0			13.9		
12				33.0			67.6			14.1		
13				21.0			48.0			12.0		
14				29.5			62.0			12.0		
15				50.0			89.3			19.0		
16				39.5			87.4			17.0		
17				49.9			109.0			21.2		
18				60.0			130.0			24.0		
19				69.5			123.0			24.0		
20				45.0			82.0			15.9		
21				83.0			125.0			22.3		
22				60.0			98.0			20.0		
23				70.2			136.1			21.2		
24				50.5			82.0			15.9		
25				66.7			137.2			19.7		
26				38.4			96.2			19.2		
27				42.3			107.0			22.1		
28				39.5			115.0			21.2		
29				52.5			146.0			23.3		
30	60.0			40.1			90.3			18.2		
31				40.8			85.6			16.0		
Total Month	194.00			1074.70			2409.70			446.58		

(Some Water Turned In At Night During Peak Flows)

* Exchanges with Primary Water

NOTE: Records Subject To Correction From Continuous Recorders Due To High Fluctuations On Stream.

WATER ABOVE SERVICE CANAL

Distribution System

UPPER				HIGHLINE			DODDS		TOTAL	TOTAL	TOTAL DEL.
Prim.	A. V. Res.C.	Stk. Stock	Alta Prim.	Leidy Peak	A. V. Res.C.	Stk. Stock Appl. 4796	Prim.	Stk. Stock	A. V. Res.C.	Prim-ary	All Sources
6.0							.20			17.20	17.20
5.0							.30			17.76	17.76
8.0							.30			20.76	20.76
8.0							.40			19.86	19.86
13.0							.50			35.03	35.03
24.0							.70			68.70	68.70
22.0							.86			80.43	80.43
42.0							1.39			123.69	123.69
111.0							2.58			285.58	285.58
142.0			20.0				2.53			298.43	298.43
164.0			30.0				2.53			348.43	348.43.
82.0			5.0				2.43			204.13	204.13
83.0			4.0				2.0			170.00	170.00
75.0			4.0				1.98			184.48	184.48
111.0			5.5				3.29			278.09	278.09
142.0			7.5				2.96			296.36	296.36
166.0			9.0				4.0			359.10	359.10
190.0			10.0				4.0			418.00	418.00
263.0			35.0				4.0			518.50	518.50
208.0			20.0				2.68			373.58	373.58
218.0			70.0				4.0			522.30	522.30
195.0			20.0				4.0			397.00	397.00
224.0			30.0				4.0			485.50	485.50
180.0			8.0				2.5			338.90	338.90
175.0			8.0				2.9			409.50	409.50
135.0			8.0	3.65			3.12			303.57	303.57
111.0			6.0	3.65			2.9			294.95	294.95
129.0			6.0	3.65			3.7			318.05	318.05
120.0			6.0	3.65			3.64			335.09	335.09
134.0			6.0	3.65		25.0	2.96	25.0		355.21	380.21
120.0			6.0	3.65		25.0	2.96	25.0		275.01	300.01
3606.00			324.00	21.90		50.00	76.31	50.00		8153.19	8203.19

DAILY DISTRIBUTION FOR

Ashley Creek

DATE	STK. DITCH	VERNAL		ROCK POINT		CENTRAL		ISLAND	
JUNE	Prim-ary	Prim.	Exch.	Prim.	A. V. Stk. Res.C. Stock	Prim.	A. V. Stk. Res.C. Stock	Prim.	A. V. Stk. Res.C. Stock
1	6.50	6.0		44.00		90.00		17.00	
2	7.00	6.0		46.40		91.20		18.80	
3	6.00	6.0		44.10		80.00		18.80	
4	6.00	6.0		44.10		80.00		15.90	
5	5.50	6.2		38.00		65.00		15.00	
6	5.00	6.2		34.60		54.00		14.00	
7	4.00	6.2		30.00		44.60		12.20	
8	3.20	6.2		26.10		38.00		11.80	
9	3.00	6.2		27.00		37.00		10.90	
10	3.00	5.5	.90	22.80		36.90		10.00	
11	3.00	5.5	.90	28.00		39.50		10.70	
12	2.80	5.5	.90	21.00		36.00		10.00	
13	2.80	5.5	.90	21.50		33.00		8.79	
14	2.80	5.5	.90	21.50		33.00		8.79	
15	2.80	5.5	.90	21.50		32.10		8.55	
16	2.16	5.5	.90	22.00		32.10		8.63	
17	2.16	5.5	.90	22.80		32.80		8.63	
18	4.00	5.5	.90	38.40		58.00		13.70	
19	4.00	5.5	.90	30.00		45.00		11.30	
20	3.00	5.0	1.40	27.00		34.50		9.30	
21	1.32	5.0	1.10	26.50		36.00		8.79	
22	1.99	4.5	2.10	22.40		33.00		8.63	
23	1.99	4.5	2.10	18.00		30.00		6.41	
24	1.90	4.0	3.00	14.80		26.00		6.12	
25	2.01	4.0	3.00	18.90		16.90		6.71	
26	2.00	2.4	5.00	18.50		15.70		6.85	
27	2.00	2.4	5.00	18.50		15.00		6.56	
28	2.00	2.0	5.60	9.80		19.10		7.36	
29	2.00	2.0	5.60	5.66		19.10		6.90	
30	2.00	1.8	6.00	5.66		20.00		6.41	
31									
Total Month	97.93	147.60	48.90	769.52		1223.50		313.53	

* Exchanges with Primary Water

WATER ABOVE SERVICE CANAL

Distribution System

UPPER			HIGHLINE			DODDS		TOTAL	TOTAL	TOTAL DEL.
Prim.	A. V. Res.C.	Stk. Stock	Alta Prim.	Leidy Peak	A. V. Res.C.	Stk. Stock	Appl. 4796	Prim.	Stk. Stock	A. V. Res.C.	Prim-ary	All Sources
101.00			5.00	5.00		25.00		3.00	25.00		277.50	302.50
111.00			5.00	5.00		25.00		3.00	25.00		293.40	318.40
111.00			5.00	5.00		25.00		3.12	25.00		279.02	304.02
111.00			5.00	5.00		25.00		3.12	25.00		276.12	301.12
80.00			4.00	5.00		25.00		3.00	25.00		221.70	246.70
72.00			4.00	4.00		25.00		2.08	25.00		195.88	220.88
68.00			4.00	4.00		25.00		2.00	25.00		175.00	200.00
63.00			4.00	4.00		18.00		1.70	18.00		158.00	176.00
62.00			4.00	4.00		11.00		1.57	11.00		155.67	166.67
60.00			3.00	4.00		11.00		1.52	11.00		147.62	158.62
58.00			3.00	4.00		11.00		1.57	11.00		154.17	165.17
49.00			2.50	4.00		11.00		1.30	11.00		133.00	144.00
49.00			2.50	4.50		6.00		1.27	6.00		129.76	135.76
49.00			2.50	4.50		6.00		1.27	6.00		129.76	135.76
53.00			2.50	4.50		6.00		1.23	6.00		132.58	138.58
49.00			2.50	4.50				1.23			128.52	128.52
50.00			2.50	4.50				1.27			131.10	131.10
65.00		3.00	2.50	4.50				2.58	3.00		195.08	198.08
56.00		3.00	2.50	4.50				1.84	3.00		161.54	164.54
50.00		3.00	2.50	4.50				1.39	3.00		138.59	141.59
44.00		3.00	2.50	4.50				1.27	3.00		130.98	133.98
42.00		3.00	2.50	4.50				1.23	3.00		122.85	125.85
38.00		3.00	2.00	4.00				.92	3.00		107.92	110.92
38.00		3.00	2.00	4.00				.74	3.00		100.56	103.56
35.00		9.00	1.75					.95	9.00		89.22	98.22
34.00		9.00	1.75					1.07	9.00		87.27	96.27
33.00		9.00	1.75					.99	9.00		85.20	94.20
33.00		15.00	1.65					.95	15.00		81.46	96.46
30.00		15.00	1.65					.92	15.00		73.83	88.83
31.00		17.00	1.50					.92	17.00		75.29	92.29
1725.00		95.00	87.55	106.00		255.00		49.06	350.00		4568.59	4918.59

DAILY DISTRIBUTION FOR

Ashley Creek

DATE	STK. DITCH	VERNAL		ROCK POINT			CENTRAL			ISLAND		
JULY	Primary	Prim.	Exch.	Prim.	A. V. Res.	Stk. C. Stock	Prim.	A. V. Res.	Stk. C. Stock	Prim.	A. V. Res.	Stk. C. Stock
1	1.5	2.5	5.0	13.7			8.0			6.12		
2	1.5	2.5	5.0	13.3			7.4			5.11		
3	1.5	2.5	5.0	4.0			8.0			5.68		
4	1.5	2.5	5.0	4.0			8.0			5.60		
5	1.5	2.5	5.0	4.0			5.35			5.97		
6	1.5	2.0	5.5	4.0			5.35			5.97		
7	1.5	2.0	5.5	4.0			5.35			5.97		
8	1.5	2.0	5.5	4.0			4.50			5.11		
9	1.5	2.0	5.5	5.12			4.80			5.39		
10	1.5	2.0	5.5	5.12			4.80			4.50		1.0*
11	1.0	2.0	5.5	5.12			5.0			4.50		1.0*
12	1.0	2.0	5.5	5.12			2.0		13.0*	3.90		2.5*
13	1.0	2.0	5.5	3.0			4.0		13.0*	3.90		2.5*
14	1.0	2.0	5.5	3.0			2.0		13.0*	3.60		2.5*
15	1.0	2.0	5.5	2.7					11.3*	2.80		2.0*
16	1.0	2.0	5.5	11.2					8.0*	2.89		2.5*
17	1.0	2.0	5.5	11.2					8.0*	3.00		2.5*
18	1.0	1.8	6.0	1.0					14.0*	1.81		2.5*
19	1.0	1.8	6.0	1.0					12.5*	2.20		2.5*
20	1.0	1.8	6.0	1.0					10.0*	2.10		2.5*
21	1.0	1.8	6.0	4.62					5.18*	1.81		2.5*
22	1.0	1.8	6.0	4.88					4.72*	1.92		2.0*
23	1.0	1.8	6.0	1.5					8.0*	2.25		2.5*
24	1.0	1.8	6.0	1.5	1.0				11.0*	2.25		2.5*
25	1.0	1.8	6.0	1.5	1.0				10.5*	2.10		2.5*
26	1.0	1.8	6.0	1.5	1.0				10.0*	1.80		2.0*
27	.5	1.8	6.0	4.0	1.0				7.0*	1.50		2.0*
28	.5	1.8	6.0	4.0					11.0*	1.50		2.0*
29	.5	1.8	6.0	1.0					11.0*	1.40		2.0*
30	.5	1.8	6.0	1.0					9.0*	1.40		2.5*
31	.5	1.8	6.0	1.0				2.0	7.0*	1.36		1.5*
Total Month	33.50	61.70	175.0	132.08	4.0		74.55	2.0	197.20	105.41		48.0

* Exchanges with Primary Water

WATER ABOVE SERVICE CANAL

Distribution System

UPPER			HIGHLINE					DODDS	TOTAL	TOTAL	TOTAL	TOTAL DEL.
Prim.	A. V. Res.	Stk. C. Stock	Alta Prim.	Leidy Peak	A. V. Res.	Stk. Stock	Appl. 4796	Prim-ary	Stk. Stock	A. V. Res.	Prim.	All Sources
30.0		19.0	1.5					.92	19.0		69.24	88.24
26.0		23.0	1.5					.71	23.0		63.02	86.02
20.0		23.0	1.5			10.0		.80	33.0		48.98	81.98
17.0		23.0	1.5			8.5		.71	31.5		45.81	77.31
16.0		23.0	1.5			10.0		.68	33.0		42.50	75.50
16.0		23.0	1.5			10.0		.68	33.0		42.50	75.50
14.0		23.0	1.5			10.0		.68	33.0		40.50	73.50
14.0		23.0	1.0			10.0		.68	33.0		38.29	71.29
14.0		23.0	1.0		10.0	10.0		.61	33.0	10.0	39.92	82.92
13.0		23.0	1.0		18.5	10.0		.61	34.0	18.5	38.03	90.53
12.0		23.0		1.0	12.5	15.0		.61	39.0	12.5	36.73	88.23
14.0		15.0		1.0	10.0	15.0		.54	45.5	10.0	35.06	90.56
14.0	10.0	20.0		1.0	10.0	20.0		.58	55.5	20.0	34.98	110.48
13.0	10.0	20.0		1.0	10.0	20.0		.49	55.5	20.0	31.59	107.09
13.0	10.0	20.0		1.0	10.0	20.0		.40	53.3	20.0	28.40	101.70
14.0	10.0	20.0		1.0	10.0	20.0		.46	50.5	20.0	38.05	108.55
13.0	10.0	20.0		.5	10.0	20.0		.54	50.5	20.0	36.74	107.24
9.0	15.0	25.0		.5	10.0	10.0		.40	51.5	25.0	21.51	98.01
10.0	15.0	25.0		.5	10.0	10.0		.40	50.0	25.0	22.90	97.90
11.0	15.0	25.0		.5	10.0	10.0		.30	47.5	25.0	23.70	96.20
10.0	15.0	25.0		.5	10.0	10.0		.43	42.68	25.0	26.16	93.84
11.0	15.0	25.0		.5	10.0	10.0		.40	41.72	25.0	27.50	94.22
13.0	10.0	25.0		.5	10.0	10.0		.40	45.5	20.0	26.45	91.95
12.0	10.0	24.0		.5	10.0	10.0		.40	47.5	21.0	25.45	93.95
9.0	10.0	24.0			10.0	10.0		.40	47.0	21.0	21.80	89.80
6.0	6.0	25.0			10.0	10.0		.35	47.0	17.0	18.45	82.45
5.0	4.0	25.0			9.0	10.0		.25	44.0	14.0	19.05	77.05
4.0	2.0	25.0			6.0	10.0		.25	48.0	8.0	18.05	74.05
4.0	2.0	25.0			6.0	10.0		.25	48.0	8.0	14.95	70.95
4.0	2.0	25.0			5.0	10.0		.25	46.5	7.0	14.95	68.45
4.0	2.0	25.0				8.0		.25	46.5	4.0	14.91	60.41
385.0	173.0	712.0	13.50	10.0	217.0	346.5		15.43	1303.7	396.0	1006.17	2705.87

DAILY DISTRIBUTION FOR

Ashley Creek

DATE	STK. DITCH	VERNAL			ROCK POINT			CENTRAL			ISLAND		
Aug.	A.V. Res.	Prim.	Prim.	Exch.	Prim.	A. V. Res.	Stk. C. Stock	Prim.	A. V. Res.	Stk. C. Stock	Prim.	A. V. Res.	Stk. C. Stock
1		.50	1.80	6.0	1.00				2.00	8.0	1.5		2.5
2		.50	1.80	6.0	4.00				2.00	6.0	1.5		2.5
3		.50	1.80	6.0	4.00				2.00	6.0	1.5		2.5
4		.50	1.80	6.0	0.00				2.00	8.0	1.5		2.5
5		.50	1.80	6.0	0.00				2.00	8.0	1.5		2.5
6		.50	1.80	6.0	0.00				2.00	8.0	1.3		2.5
7		.50	1.80	6.0	0.00				2.00	9.0	1.3		2.5
8	1.52	.50	1.80	6.0	6.00				2.00	6.0	1.4		2.0
9	3.75	1.00	1.80	6.0	6.20			4.50		6.0	2.0		2.0
10	2.50	1.00	1.80	6.0	7.90			2.00		10.0*	3.3		2.0*
11	2.50	1.00	1.80	6.0	6.00					9.0*	2.5		2.0*
12	2.50	.50	1.80	6.0						10.0*	1.4		2.0*
13	2.50	.50	1.80	6.0						8.0*	1.2		2.0*
14	2.50	.50	1.80	6.0	5.00					5.0*	1.2		2.0*
15	2.50	.50	1.80	6.0	3.75		1.00*			4.0*	1.2		2.0*
16	2.50	.50	1.80	6.0				2.25		5.0*	1.3		2.0*
17	2.50	.50	1.80	5.5				3.00		7.0*	1.5		2.0*
18		.80	1.80	5.5				4.00		8.0*	2.2		2.0*
19		.80	1.80	5.5				4.00		8.0*	2.2		2.0*
20		.80	1.50	5.0	6.00			4.00			2.0		2.0*
21		.80	1.50	5.0	6.00			4.00			1.86		1.0*
22	1.50**	.80	1.50	5.0				4.50		6.0*	1.86		1.0*
23	1.50**	.80	1.50	5.0				4.50		5.0*	2.50		1.5*
24		2.00	1.50	4.5				4.50		5.0*	2.50		1.5*
25		2.00	1.50	4.5				4.50		5.0*	2.50		1.5*
26		2.00	1.50	4.5	6.00			4.00			2.50		1.5*
27		2.00	1.50	4.5	6.00			4.00			2.00		1.5*
28		2.00	1.50	4.5	1.00			4.00			2.00		1.5*
29		2.00	1.50	4.0	1.00			4.00			2.00		2.5*
30		2.00	1.50	4.0	1.00			3.00		2.5*	2.00		1.5*
31			1.50	4.0	1.00			4.00			2.00		2.5*
Total Month	28.25	28.80	52.20	167.0	71.85		1.00	68.75	16.00	162.50	57.22		61.00

* Exchanges with Primary Water
** Exchanges with Steinaker Water

WATER ABOVE SERVICE CANAL

Distribution System

UPPER				HIGHLINE			DODDS	TOTAL	TOTAL	TOTAL	TOTAL DEL.
Prim.	A. V. Res.C.	Stk. Stock	Alta Prim.	Leidy Peak	A. V. Res.C.	Stk. Stock	Appl. 4796	Prim-ary	Stk. Stock	A. V. Res.C.	Prim-ary	All Sources
4.0	4.0	25.0				4.5		.35	40.0	6.00	15.15	61.15
4.0	10.5	18.5				4.5		.35	31.5	12.50	18.15	62.15
4.0	10.5	18.5				4.5		.35	31.5	12.50	18.15	62.15
4.0	10.5	18.5				4.5		.35	33.5	12.50	14.15	60.15
4.0	10.5	18.5				6.0		.25	35.0	12.50	14.05	61.55
Flood 16.0	7.0	10.0				6.0		.25	26.5	9.00	25.85	61.35
7.0	8.0	10.0				6.0		.25	27.5	10.00	16.85	54.35
5.0	4.0	15.0				6.0		.25	29.0	7.50	20.95	57.45
9.0	2.5	11.5				6.0		.40	25.5	6.25	30.90	62.65
15.0	2.5	11.5*				6.0*		.46	29.5	5.00	37.46	71.96
10.0	2.5	9.5*				6.0*		.40	26.5	5.00	27.70	59.20
9.0	2.5	7.5*				6.0*		.35	25.5	5.00	19.05	49.55
8.0	6.0	4.0*				6.0*		.35	20.0	8.50	17.85	46.35
8.0	6.0	4.0*						.35	11.0	8.50	22.85	42.35
7.0	6.0	3.0*			6.0			.30	10.0	14.50	20.55	45.05
7.0	6.0	4.0*			6.0			.25	11.0	14.50	19.10	44.60
8.0	6.0	4.0*			6.0			.30	13.0	14.50	20.60	48.10
10.0	6.0	4.0*			6.0			.40	14.0	12.00	24.70	50.70
12.0	6.0	4.0*			6.0/12 hrs.			.40	14.0	12.00	26.70	52.70
5.0	6.0**	6.0*						.40	8.0	6.00	24.70	38.70
4.0	6.0**	6.0*						.35	7.0	6.00	23.51	36.51
5.0	6.0**	6.0*						.35	13.0	7.50	19.01	39.51
2.0	6.0**	6.0*	5.0					.40	12.5	7.50	21.70	41.70
9.0		6.0*	5.0					.40	12.5		29.40	41.90
9.0		6.0*	5.0					.40	12.5		29.40	41.90
8.0	2.0**	6.0*	5.0					.40	7.5	2.00	33.90	43.40
6.0	2.0**	6.0*	5.0					.40	7.5	2.00	31.40	40.90
5.0	2.0**	10.0*	5.0					.35	11.5	2.00	25.35	38.85
6.0	2.0**	6.0*	5.0					.35	8.5	2.00	25.85	36.35
5.0	2.0**	6.0*	5.0					.35	10.0	2.00	23.85	35.85
11.0	2.0**	6.0*						.40	8.5	2.00	23.90	34.40
226.00	153.00	277.00	40.00		30.00	72.00		10.91	573.5	227.25	722.73	1523.48

DAILY DISTRIBUTION FOR

Ashley Creek

DATE	STK. DITCH	VERNAL		ROCK POINT		CENTRAL		ISLAND	
SEPT.	Prim-ary	Prim.	Exch.	Prim.	A. V. Res.C. Stk. Stock	Prim.	A. V. Res.C. Stk. Stock	Prim.	A. V. Res.C. Stk. Stock
1		1.5	4.0	6.48		4.0		2.5	1.0 *
2		1.5	4.0	6.50		4.0		2.5	2.0 *
3		1.5	4.0	3.0		4.0		2.5	2.0 *
4		1.5	4.0	3.0		3.5		2.5	1.5 *
5		1.5	4.0	3.8		4.0		2.08	1.0 *
6		1.5	4.0	3.8		4.0		2.08	1.0 *
7		1.5	4.0	8.0		4.0		2.00	1.0 *
8		1.5	4.0	10.0		6.0		3.50	2.0 *
9		1.5	4.0	9.19		6.0		3.0	2.0 *
10		1.5	4.0	8.87		10.0		3.0	2.0 *
11		1.5	4.0	8.87		9.5		3.0	2.0 *
12		1.5	4.0	8.50		9.0		2.5	2.0 *
13		1.5	4.0	8.0		3.0		2.5	2.0 *
14		1.5	4.0	8.0		3.0		2.5	1.5 *
15		1.5	4.0	8.0		3.0		2.5	1.5 *
16		1.5	4.0	2.0		3.0		2.5	1.5 *
17		1.5	4.0	2.0		3.0		2.0	2.0 *
18		1.5	4.0	5.0		5.0		2.5	2.0 *
19		4.0	1.5	30.0		11.0		10.0	2.0 *
20		2.5	3.0	17.6		6.0		5.0	3.0 *
21		2.5	3.0	17.0		6.0		5.0	3.0 *
22		2.5	3.0	16.5		5.5		4.7	3.0 *
23		2.5	3.0	16.0		5.5		4.7	2.5 *
24		2.5	3.0	15.2		5.00		4.5	2.5 *
25		2.2	3.0	14.1		4.50		4.5	2.0 *
26		2.2	3.0	13.3		4.00		4.0	2.0 *
27		2.1	3.0	12.0		4.00		3.5	2.0 *
28		2.1	3.4	11.5		4.00		3.4	2.0 *
29		2.1	3.4	11.4		4.00		3.0	2.0 *
30		2.0	3.5	11.2		4.50		3.0	1.0 *
31									
Total Month		56.20	107.80	298.81		152.00		100.96	57.00

* Exchanges with Primary Water

** Exchanges with Steinaker Water

WATER ABOVE SERVICE CANAL

Distribution System

UPPER			HIGHLINE				DODDS	TOTAL	TOTAL	TOTAL	TOTAL DEL.
Prim.	A. V. Res.C.	Stk. Stock	Alta Prim.	Leidy Peak	A. V. Res.C.	Stk. Stock	Appl. 4796	Prim.	Stk. Stock	A. V. Res.C.	Prim ary	All Sources
14.0	2.0**	6.0*					.50	7.0	2.0	32.98	41.98
15.0	2.0**	6.0*					.45	8.0	2.0	33.95	43.95
15.0	2.0**	11.0*					.45	13.0	2.0	30.45	45.45
12.0	2.0**	11.0*					.40	12.5	2.0	26.90	41.40
9.0	2.0**	11.0*					.35	12.0	2.0	24.73	38.73
9.0	2.0**	11.0*					.35	12.0	2.0	24.73	38.73
10.0		6.0*					.35	7.0		29.85	36.85
16.0		6.0*					.50	8.0		41.50	49.50
14.0		6.0*					.45	8.0		38.14	46.14
15.0							.45	2.0		42.82	44.82
16.0							.45	2.0		43.32	45.32
15.0							.45	2.0		40.95	42.95
14.0		6.0*					.40	8.0		33.40	41.40
13.0		6.0*					.40	7.5		32.40	39.90
13.0		6.0*					.40	7.5		32.40	39.90
12.0		12.0*					.40	13.5		25.40	38.90
11.0		12.0*					.37	14.0		23.87	37.87
16.0		12.0*					.50	14.0		34.50	48.50
40.0		6.0*					1.20	8.0		97.70	105.70
30.0		6.0*					.70	9.0		64.80	73.80
29.0		6.0*					.70	9.0		63.20	72.20
28.0		6.0*					.68	9.0		60.88	69.88
26.0		6.0*					.68	8.5		58.38	66.88
25.0		6.0*					.65	8.5		55.85	64.35
24.0		6.0*					.60	8.0		52.90	60.90
22.0		6.0*					.57	8.0		49.07	57.07
20.0		6.0*					.55	8.0		45.15	53.15
19.0		6.0*					.55	8.0		43.95	51.95
18.0		6.0*					.52	8.0		42.42	50.42
17.0		6.0*					.50	7.0		41.70	48.70
537.0	12.00	200.00					15.52	257.0	12.0	1268.29	1537.29

DAILY DISTRIBUTION FOR

Ashley Creek

DATE OCT.	STK. DITCH Prim-ary	VERNAL Prim.	VERNAL Exch.	ROCK POINT Prim.	ROCK POINT A. V. Res.	ROCK POINT Stk. C. Stock	CENTRAL Prim.	CENTRAL A. V. Res.	CENTRAL Stk. C. Stock	ISLAND Prim.	ISLAND A. V. Res.	ISLAND Stk. C. Stock
1		2.0	3.5	10.5			4.5			3.25		1.0 *
2		2.0	3.5	10.0			4.0			3.10		1.0 *
3		2.0	3.5	9.19			4.0			3.0		1.0 *
4		2.0	3.5	9.00			4.0			3.0		1.0 *
5		2.0	3.5	9.00			4.0			3.0		1.0 *
6		2.0	3.5	8.55			4.0			3.0		1.0 *
7		2.0	3.5	8.55			4.0			3.0		1.0 *
8		2.0	3.5	8.55			4.0			3.0		1.0 *
9		2.0	3.5	6.0			6.0			3.0		1.0 *
10		2.0	3.5	6.0			6.0			3.0		1.0 *
11		2.0	3.5	6.0			6.0			3.0		1.0 *
12		2.0	3.5	7.0			6.0			3.0		1.0 *
13		2.0	3.5	8.0			6.0			3.0		1.0 *
14		2.0	3.5	8.0			8.0			3.0		1.0 *
15		2.0	3.5	8.0			8.0			3.0		1.0 *
16		2.0	3.5	7.5			7.0			2.8		1.0 *
17		2.0	3.5	7.0			7.0			2.5		1.0 *
18		2.0	3.5	7.0			7.0			2.5		1.0 *
19		2.0	3.5	7.5			7.0			2.5		1.0 *
20		2.0	3.5	8.0			7.0			2.5		1.0 *
21		2.0	3.5	8.0			7.0			2.5		1.0 *
22		2.0	3.5	8.0			7.0			2.5		1.0 *
23		2.0	3.5	7.5			7.0			2.5		1.0 *
24		2.0	3.5	7.5			7.0			2.5		1.0 *
25		2.0	3.5	7.5			7.0			2.5		1.0 *
26		2.0	3.5	7.0			7.0			2.2		1.0 *
27		2.0	3.5	7.0			6.5			2.2		1.0 *
28		2.0	3.5	6.5			6.5			2.0		1.0 *
29		2.0	3.5	6.5			6.2			2.0		1.0 *
30		2.0	3.5	6.2			6.0			1.86		1.0 *
31		2.0	3.5	6.2			6.0			1.86		1.0 *
Total Month		62.0	108.5	237.24			186.7			82.77		31.0

* Exchanges with Primary Water

WATER ABOVE SERVICE CANAL

Distribution System

UPPER				HIGHLINE				DODDS	TOTAL	TOTAL	TOTAL	TOTAL DEL.
Prim.	A. V. Res.C.	Stk. Stock	Alta Prim.	Leidy Peak	A. V. Res.C.	Stk. Stock	Appl. 4796	Prim.	Stk. Stock	A. V. Res.C.	Prim-ary	All Sources
17.0		6.0	*					.48	7.0		41.23	48.23
16.0		6.0	*					.45	7.0		39.05	46.05
16.0		6.0	*					.45	7.0		38.14	45.14
16.0		6.0	*					.45	7.0		37.95	44.95
16.0	6.0	4.0	*					.45	5.0	6.0	37.95	48.95
15.0	9.0	4.0	*					.40	5.0	9.0	36.45	50.45
14.0	9.0	4.0	*					.40	5.0	9.0	35.45	49.45
14.0	9.0	4.0	*					.40	5.0	9.0	35.45	49.45
14.0	9.0	4.0	*					.40	5.0	9.0	34.90	48.90
14.0	9.0	4.0	*					.35	5.0	9.0	34.85	48.85
14.0	9.0	4.0	*					.35	5.0	9.0	34.85	48.85
15.0	9.0	4.0	*					.35	5.0	9.0	36.85	50.85
16.0	9.0	4.0	*					.42	5.0	9.0	38.92	52.92
16.0	5.0	2.0	*					.40	3.0	5.0	40.90	48.90
15.0	5.0	2.0	*					.40	3.0	5.0	39.90	47.90
14.0	5.0	2.0	*					.38	3.0	5.0	37.18	45.18
14.0	5.0	2.0	*					.35	3.0	5.0	36.35	44.35
13.0	5.0	2.0	*					.35	3.0	5.0	35.35	43.35
12.0	5.0	2.0	*					.35	3.0	5.0	34.85	42.85
12.0	5.0	2.0	*					.35	3.0	5.0	35.35	43.35
12.0	5.0	2.0	*					.35	3.0	5.0	35.35	43.35
12.0	5.0	2.0	*					.35	3.0	5.0	35.35	43.35
12.0	5.0	2.0	*					.35	3.0	5.0	34.85	42.85
12.0	5.0	2.0	*					.35	3.0	5.0	34.85	42.85
12.0	5.0	2.0	*					.35	3.0	5.0	34.85	42.85
11.5	5.0	2.0	*					.32	3.0	5.0	33.52	41.52
11.0	5.0	2.0	*					.32	3.0	5.0	32.52	40.52
11.0	5.0	2.0	*					.32	3.0	5.0	31.82	39.82
11.0	5.0	2.0	*					.30	3.0	5.0	31.50	39.50
10.0	5.0	2.0	*					.30	3.0	5.0	29.86	37.86
10.0	5.0	2.0	*					.30	3.0	5.0	29.86	37.86
417.5	168.0	96.0						11.54	127.0	168.0	1106.25	1401.25

Rotation Schedule for Middle Part of Brush Creek, Uintah County, Summer, 1963.
Amount: 35.5% of 13% of total flow of Creek.

Name	Hours of Right	Begin Date	Begin Time	End Date	End Time
Howard Ainge	89:30	6-2	12:01 p.m.	6-6	5:31 a.m.
Sam Sessions	20:21	6-6	5:31 a.m.	6-7	1:52 a.m.
Murrays	17:27	6-7	1:52 a.m.	6-7	7:19 p.m.
Leon Ainge	20:21	6-7	7:19 p.m.	6-8	3:40 p.m.
Martin Evans	20:21	6-8	3:40 p.m.	6-9	12:01 a.m.
Howard Ainge		6-9	12:01 p.m.	6-13	5:31 a.m.
Sam Sessions		6-13	5:31 a.m.	6-14	1:52 a.m.
Murrays		6-14	1:52 a.m.	6-14	7:19 p.m.
Leon Ainge		6-14	7:19 p.m.	6-15	3:40 p.m.
Martin Evans		6-15	3:40 p.m.	6-16	12:01 a.m.
Howard Ainge		6-16	12:01 p.m.	6-20	5:31 a.m.
Sam Sessions		6-20	5:31 a.m.	6-21	1:52 a.m.
Murrays		6-21	1:52 a.m.	6-21	7:19 p.m.
Leon Ainge		6-21	7:19 p.m.	6-22	3:40 p.m.
Martin Evans		6-22	3:40 p.m.	6-23	12:01 a.m.

Irrigation Schedule for upper part of Brush Creek, Uintah County, Summer 1963.
Amount: 64.5% of 13% of total stream flow.

Marvin Jackson	17:42	6-2	12:01 p.m.	6-3	5:43 a.m.
Hugh Colton	28:54	6-3	5:43 a.m.	6-4	10:37 a.m.
Bert Hatch	27:39	6-4	10:37 a.m.	6-5	2:16 p.m.
WM. Whitbeck	1:39	6-5	2:16 p.m.	6-5	3:55 p.m.
Shiner Bros.	92:06	6-5	3:55 p.m.	6-9	12:01 p.m.
Marvin Jackson		6-9	12:01 p.m.	6-10	5:43 a.m.
Hugh Colton		6-10	5:43 a.m.	6-11	10:37 a.m.
Bert Hatch		6-11	10:37 a.m.	6-12	2:16 p.m.
Wm. Whitbeck		6-12	2:16 p.m.	6-12	3:55 p.m.
Shiner Bros.		6-12	3:55 p.m.	6-16	12:01 p.m.
Marvin Jackson		6-16	12:01 p.m.	6-17	5:43 a.m.
Hugh Colton		6-17	5:43 a.m.	6-18	10:37 a.m.
Bert Hatch		6-18	10:37 a.m.	6-19	2:16 p.m.
Wm. Whitbeck		6-19	2:16 p.m.	6-19	3:55 p.m.
Shiner Bros.		6-19	3:55 p.m.	6-23	12:01 p.m.

Continue to rotate on this schedule each week. You will be notified of the amount of water to take as the creek flow changes from week to week.

UNITED STATES DEPARTMENT OF THE INTERIOR--GEOLOGICAL SURVEY--WATER RESOURCES DIV.

File No. 9-2620.00

Daily discharge, in second-feet, of Brush Creek near Vernal, Utah, for the year ending September 30, 1963

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	12	11		b45	8.3	15	13	27	11	10	13
2	*18	13	11		11	7.9	13	17	45	8.7	9.6	13
3	18	12	11		11	7.9	*11	20	63	9.6	10	13
4	18	12	11		11		11	27	43	11	11	12
5	27	12	11		11	b7.9	9.6	38	36	9.6	11	12
6	20	12	11	b10	11		11	49	*28	9.2	9.2	13
7	19	11	11		11		16	*54	22	9.6	8.7	13
8	18	11	10		*11	b7.6	23	73	18	9.2	10	13
9	17	11	10		11	b7.9	16	82	31	9.6	11	13
10	16	12	10		11	b8.0	13	*94	46	11	11	13
11	*16	12	b10			8.7	13	96	49	11	11	13
12	16	11	b10		b10	8.7	12	61	49	12	9.2	13
13	16	11	*b11			b8.5	13	41	49	12	8.3	12
14	16	11	b11			b8.5	17	49	55	13	8.7	13
15	16	*13	11		9.6	8.7	29	59	55	12	9.2	13
16	16	12	b11	b9.5	9.6	8.7	23	60	46	13	9.2	11
17	16	11	b11		9.2	8.7	20	61	40	12	9.2	11
18	16	11	11		9.6	9.2	18	60	39	12	11	*13
19	15	11	12		9.2	8.7	16	67	38	*13	9.6	17
20	14	11	11		9.2	8.7	16	*59	33	13	8.7	15
21	14	11	11		9.2	8.7	17	63	29	13	8.7	16
22	13	11	b11	*	9.2	13	16	56	28	9.7	*9.2	16
23	13	11	11		8.7	22	15	61	27	9.6	9.6	15
24	13	11	11		8.7	20	*12	59	*21	11	8.7	12
25	13	11		b10	9.6	13	11	63	19	11	8.7	12
26	13	11			*10	13	13	45	18	11	8.3	12
27	13	11			8.7	14	16	43	14	11	16	11
28	13	12	b10		8.3	35	14	38	14	11	11	11
29	13	11		b11		23	13	36	11	10	9.6	11
30	13	11		b12		18	13	68	11	10	10	11
31	12			b30		18		*44		10	12	
	489	343	330	328.5	312.8	364.0	455.6	1,656	1,004	338.8	307.4	386
Mean	15.8	11.4	10.6	10.6	11.2	11.7	15.2	53.4	33.5	10.9	9.92	12.9
Acre Feet	970	680	655	652	620	722	904	3,280	1,990	672	610	766

Max. discharge 280 cfs June 2

Year Mean 17.3

Acre Feet 12,520

* Discharge measurement made on this day.

b Stage-discharge relation affected by ice (no gage height record Jan. 12-21).

DAILY DISTRIBUTION OF BRUSH CREEK FOR THE MONTH OF APRIL 1963

Date	Marvin Jackson	Bert Hatch	Shiner Bros.	Howard Ainge	Sam Sessions	Sunshine Canal	Leon Ainge Martin Evans Murrays	Burns Bench Divider	Burns Bench Canal	Burton Ditch	Murray Ditch	Total	Remarks
1						6.23	1.78	9.23	*	3.77	2.46	17.24	Burns Bench Did not take water during this period due to canal repairs.
2						6.23	1.78	9.23		3.77	2.46	17.24	
3						6.23	1.78	7.55		3.66	2.39	15.56	
4						6.41	1.78	7.55		3.66	2.39	15.74	
5						6.41	1.78	7.21		3.45	2.26	15.40	
6				2.90	1.03	6.41	1.78	6.76		3.66	2.39	17.88	
7				2.90	1.03	6.96	1.78	6.76		3.56	2.32	19.43	
8				2.90	1.03	6.96	2.39	6.76		3.56	2.32	20.04	
9				2.90	1.03	6.96	2.39	13.7		8.40	5.30	26.98	
10				1.57	.68	7.34	2.39	13.7		8.40	5.30	25.68	
11				1.57	.68	7.34	2.39	13.7		8.40	5.30	25.68	
12				1.57	.68	7.34	2.39	13.0		7.00	5.00	24.98	
13				1.57	.68	2.52	.96	13.0		7.00	5.00	18.73	
14				1.57	.68	2.52	.96	13.0		7.00	5.00	18.73	
15				1.57	.68	2.52	1.90	12.2		6.10	4.00	18.87	
16				1.57	.68	5.36	1.90			4.16	2.72	9.51	
17				1.57	.68	5.36	.96			3.95	2.58	8.57	
18				1.57	.68	11.7	.96		*	3.77	2.46	14.91	
19				1.24		Off	.96	12.6	7.18	3.27	2.14	14.80	
20				1.24			.70	11.9	6.78	3.09	2.02	13.84	
21				1.24			.70	13.7	7.80	3.77	2.46	15.64	
22				1.24			.70	15.2	8.66	3.95	2.58	17.14	
23				.90			.48	15.2	8.66	3.95	2.58	16.58	
24			1.54	.90	.45		.48	13.3	7.58	3.45	2.26	16.67	
25			1.54	.90	.45		.48	13.3	7.58	3.45	2.26	16.67	
26			1.54	.90	.45		.48	12.6	7.18	3.27	2.14	15.97	
27			1.54	.90	.45		.48	13.0	7.41	3.38	2.21	16.37	
28			1.54	.90	.45		.48	13.0	7.41	3.38	2.21	16.37	
29			1.20	.90	.45		.48	13.0	7.41	3.38	2.21	16.03	
30			1.20	.90	.45		.48	12.6	7.18	3.27	2.14	15.63	
Total cfs			10.10	37.89	13.39	110.8	38.95	312.75	90.83	134.88	109.46	522.88	

DAILY DISTRIBUTION OF BRUSH CREEK FOR THE MONTH OF MAY 1963

Date	Marvin Jackson	Bert Hatch	Shiner Bros.	Howard Ainge	Sam Sessions	Sunshine Canal	Leon Ainge Martin Evans Murrays	Burns Bench Divider	Burns Bench Canal	Burton Ditch	Murray Ditch	Total
1								13.0	7.41	3.38	2.21	13.00
2						4.07	1.17	13.7	7.81	3.56	2.33	18.94
3			5.12	1.50	.90	10.6	1.17	13.7	7.81	3.56	2.33	32.99
4			5.12	1.50	.90	10.6	1.17	14.5	8.26	3.77	2.46	33.79
5			5.12	1.50	.90	13.08	1.17	15.2	8.66	3.95	2.58	36.97
6			1.50	2.20	.90	9.32	1.17	14.5	8.26	3.77	2.48	29.59
7	1.89	1.50	2.88	2.20	1.21	25.1	1.17	32.5	18.56	8.45	5.49	68.45
8	1.89	1.50	2.88	2.20	1.21	13.1	2.09	33.0	18.81	8.58	5.61	57.87
9	1.89	1.50	2.88	2.20	1.21	32.0	2.09	45.2	25.76	11.75	7.68	88.97
10	1.89	1.50	2.88	2.20	1.21	32.0	2.09	44.6	25.42	11.59	7.58	88.37
11	1.89		2.88	2.20	1.21	32.0	2.09	45.0	25.65	11.70	7.65	87.27
12	1.89		2.88	2.20	1.21	32.0	2.09	45.2	25.76	11.75	7.68	87.47
13	1.89	1.50	2.88	2.20	1.21	27.0	2.09	36.8	20.97	9.56	6.25	75.57
14	1.89	1.50	2.88	2.20	1.21	27.0	2.09	33.0	18.81	8.58	5.61	71.77
15	1.89		2.88	1.80	1.21	28.8	2.09	43.5	24.80	11.31	7.39	82.17
16	1.89		2.88	1.80	1.21	28.7	2.09	48.8	27.81	12.69	8.29	87.37
17	1.89		2.88	1.80	1.21	28.5	2.09	47.0	26.79	12.22	7.99	85.37
18	1.89	1.50	2.88	1.80	1.21	27.9	2.09	46.5	26.50	12.09	7.80	85.77
19	1.89	1.50	2.88	2.11	1.21	25.1	2.09	46.5	26.50	12.09	7.80	83.28
20	1.89	1.50	2.88	2.11	1.21	20.8	2.09	44.6	25.42	11.59	7.58	77.08
21	1.89	1.50	2.88	2.11	1.21	20.5	2.09	43.5	24.80	11.31	7.39	75.68
22	1.89	1.50	2.88	2.11	1.21	19.1	2.09	42.9	24.45	11.15	7.29	73.68
23	1.89	1.50	2.88	1.80	1.21	17.0	2.09	47.8	27.15	12.42	8.02	76.17
24	1.89		2.88	1.80	1.21	17.2	2.09	40.1	22.85	10.43	6.81	67.17
25	1.89		2.80	1.80	1.21	30.5	2.09	33.6	20.15	8.74	5.71	73.89
26	1.89	1.50	2.80	1.80	1.21	16.0	2.09	33.6	20.15	8.74	5.71	60.89
27	1.50	1.50	2.80	1.80	1.21	17.0	1.17	31.5	17.95	8.19	5.45	58.48
28	1.50	1.50	2.80	1.50	1.21	16.0	1.17	30.0	17.10	7.80	5.10	55.68
29	1.50	1.50	2.50	1.50	1.00	16.0	1.17	32.0	18.25	8.32	5.44	57.17
30	1.50		2.00	1.50	.90	16.0	1.17	32.0	18.25	8.32	5.44	55.07
31	1.50		2.00	1.50	.90	16.0	1.17	27.0	15.39	6.02	4.59	50.07
Total cfs	45.30	24.00	86.40	54.94	33.02	628.97	52.58	1070.8	612.22	277.38	181.74	1996.01

DAILY DISTRIBUTION OF BRUSH CREEK FOR THE MONTH OF JUNE 1963

Date	Marvin Jackson	Bert Hatch	Shiner Bros.	Howard Ainge	Sam Sessions	Sunshine Canal	Leon Ainge Martin Evans Murrays	Burns Bench Divider	Burns Bench Canal	Burton Ditch	Murray Ditch	Total
1		1.50	2.50			16.0		23.7	13.51	6.16	4.02	43.70
2	2.56	1.50	2.50	1.30		16.0		23.7	13.51	6.16	4.02	47.56
3				1.30		15.0		23.3	13.28	6.06	3.96	39.60
4		1.50		1.30		15.0		23.3	13.28	6.06	3.96	41.10
5		1.50	2.50	1.30		13.9		19.3	11.0	5.02	3.28	38.50
6		1.50	2.50		1.30	13.8		19.7	11.23	5.12	3.35	38.80
7			2.50			10.0	1.30	21.5	12.75	5.59	3.65	35.30
8			3.00			10.0	1.30	26.1	14.87	6.78	4.44	40.40
9	3.21			1.72		9.0		26.5	15.10	6.89	4.50	40.43
10				1.72		3.5		30.5	17.38	7.93	5.18	35.72
11		1.50		1.72		Off		35.7	20.35	9.26	6.07	38.92
12		1.50	3.21	1.72				36.2	20.63	9.41	6.15	42.63
13		1.50	3.21		1.72			32.0	18.25	8.32	5.44	38.43
14			3.21			6.20	1.72	37.8	21.55	9.83	6.42	48.93
15			3.21			6.20	1.72	36.2	20.63	9.41	6.15	47.33
16	3.99			2.20		6.20		32.0	18.25	8.32	5.44	44.39
17				2.20		6.20		28.5	16.24	7.41	4.84	36.90
18		1.50		2.20		6.20		24.6	14.02	6.39	4.18	34.50
19		1.50	3.99	2.20		6.20		24.6	14.02	6.39	4.18	38.49
20		1.50	3.99		2.20	Off		23.3	13.28	6.06	3.96	30.99
21		1.50	3.99				2.20	21.5	12.75	5.59	3.65	29.19
22			2.31				2.20	19.3	11.00	5.02	3.28	23.81
23	2.31			1.27				18.9	10.77	4.91	3.21	22.48
24				1.27				16.0	9.12	4.16	2.72	17.27
25		1.50		1.27		7.65		14.8	8.44	3.84	2.52	25.22
26		1.50	2.31	1.27	1.27	7.65		14.8	8.44	3.84	2.52	28.80
27		1.50	2.31			8.96		14.1	8.04	3.66	2.40	26.87
28			2.31			8.96	1.27	14.1	8.04	3.66	2.40	26.64
29			2.31			8.96	1.27	14.1	8.04	3.66	2.40	26.64
30	1.17			.80		8.96		13.7	7.81	3.56	2.33	24.63
Total cfs	13.24	22.50	51.86	26.76	6.49	210.54	12.98	709.8				1054.17

DAILY DISTRIBUTION OF BRUSH CREEK FOR THE MONTH OF JULY 1963

Date	Marvin Jackson	Bert Hatch	Shiner Bros.	Howard Ainge	Sam Sessions	Sunshine Canal	Leon Ainge Martin Evans Murrays	Burns Bench Divider	Burns Bench Canal	Burton Ditch	Murray Ditch	Total
1	1.17			.80		8.0		12.6	7.18	3.27	2.14	22.57
2		1.5		.80		8.1		12.2	6.95	3.17	2.07	22.60
3		1.5	1.17	.80		8.1		11.5	6.55	2.99	1.95	23.07
4			1.17		.80	8.1		11.2	6.38	2.91	1.90	21.27
5			1.17			8.1	.80	9.51	5.42	2.47	1.61	19.58
6			1.17			7.65	.80	9.8	5.58	2.54	1.66	19.42
7				.55		7.50		9.8	5.58	2.54	1.66	17.86
8	1.01			.55		7.50		10.2	5.81	2.65	1.73	19.26
9		1.5		.55		7.50		9.51	5.42	2.47	1.61	19.06
10		1.5	1.01	.55		7.91		9.51	5.42	2.47	1.61	20.48
11			1.01		.55	7.91		9.8	5.58	2.54	1.66	19.27
12			1.01			7.91	.55	9.8	5.58	2.54	1.66	19.27
13			1.01			6.59	.55	9.8	5.58	2.54	1.66	17.95
14				.55		6.59		8.55	4.87	2.22	1.45	15.69
15	1.01			.55		6.59		8.55	4.87	2.22	1.45	16.70
16		1.5		.55		6.59		8.24	4.60	2.14	1.41	16.88
17			1.01			5.25		7.94	4.52	2.06	1.35	14.75
18			1.01		.55	5.20		9.19	5.23	2.39	1.56	15.95
19			1.01			5.0	.55	10.5	5.99	2.73	1.78	17.06
20						Off	.55	10.2	5.81	2.65	1.73	10.75
21				.45		2.39		8.87	5.06	2.31	1.50	11.71
22	.92			.45		5.0		8.87	5.06	2.31	1.50	15.24
23		1.5		.45		1.0		8.87	5.06	2.31	1.50	11.82
24			.92	.45		1.0		8.87	5.06	2.31	1.50	11.24
25			.92		.45	1.0		8.55	4.87	2.22	1.45	10.92
26			..92			Off	.45	8.24	4.60	2.14	1.41	9.61
27			.92				.45	8.87	5.06	2.31	1.50	10.24
28				.45				8.87	5.06	2.31	1.50	9.32
29	1.17			.45				9.19	5.23	2.39	1.56	10.81
30		1.5		.45				8.87	5.06	2.31	1.50	10.82
31			.92	.45				8.87	5.06	2.31	1.50	10.24
Total cfs	5.28	10.50	16.35	10.40	2.35	146.48	4.70	295.34				491.40

DAILY DISTRIBUTION OF BRUSH CREEK FOR THE MONTH OF AUGUST 1963

Date	Marvin Jackson	Bert Hatch	Shiner Bros.	Howard Ainge	Sam Sessions	Sunshine Canal	Leon Ainge Martin Evans Murrays	Burns Bench Divider	Burns Bench Canal	Burton Ditch	Murray Ditch	Total
1								8.87	5.06	2.31	1.50	8.87
2								8.87	5.06	2.31	1.50	8.87
3								8.87	5.06	2.31	1.50	8.87
4	1.17			.45				10.2	5.81	2.65	1.73	11.82
5		1.5		.45				10.2	5.81	2.65	1.73	12.15
6				.45				5.66	3.22	1.47	.96	6.11
7			1.17	.45				5.66	3.22	1.47	.96	7.28
8			1.17		.45			5.66	3.22	1.47	.96	7.28
9			1.17				.45	5.66	3.22	1.47	.96	7.28
10			1.17				.45	5.39	3.07	1.40	.91	7.01
11	1.17			.45				5.39	3.07	1.40	.91	7.01
12		1.5		.45				5.39	3.07	1.40	.91	7.34
13				.45				5.13	2.92	1.33	.87	5.58
14			1.17	.45				5.13	2.92	1.33	.87	6.75
15			1.17		.45			5.13	2.92	1.33	.87	6.75
16			1.17				.45	5.39	3.07	1.40	.91	7.01
17			1.17				.45	5.39	3.07	1.40	.91	7.01
18	1.17			.45				5.39	3.07	1.40	.91	7.01
19		1.5		.45				5.39	3.07	1.40	.91	7.34
20				.45				5.13	2.92	1.33	.87	5.58
21			1.17	.45				5.13	2.92	1.33	.87	6.75
22			1.17		.45			5.39	3.07	1.40	.91	7.01
23			1.17				.45	5.39	3.07	1.40	.91	7.01
24			1.17				.45	5.39	3.07	1.40	.91	7.01
25	1.17			.45				5.39	3.07	1.40	.91	7.01
26		1.5		.45				5.39	3.07	1.40	.91	7.34
27				.45				7.34	4.18	1.80	1.24	7.79
28			1.17	.45				9.19	5.23	2.48	1.56	10.81
29			1.17		.45			9.19	5.23	2.48	1.56	10.81
30			1.17				.45	7.34	4.18	1.80	1.24	8.96
31			1.17				.45	7.34	4.18	1.80	1.24	8.96
Total cfs	4.68	6.00	18.72	7.20	1.80		3.60	200.38	114.12	49.61	33.91	242.38

DAILY DISTRIBUTION OF BRUSH CREEK FOR THE MONTH OF SEPTEMBER 1963

* Records calculated from U.S.G.S. flow records due to the Burns Bench Divider Weir being dammed up by beaver work.

Date	Marvin Jackson	Bert Hatch	Shiner Bros.	Howard Ainge	Sam Sessions	Sunshine Canal	Leon Ainge Martin Evans Murrays	Burns Bench Divider *	Burns Bench Canal *	Burton Ditch *	Murray Ditch *	Total
1	1.10			.60				9.80	5.58	2.55	1.66	11.50
2		1.5		.60				9.80	5.58	2.55	1.66	11.90
3				.60				9.80	5.58	2.55	1.66	10.40
4			1.10	.60				9.80	5.58	2.55	1.66	11.50
5			1.10		.60			9.80	5.58	2.55	1.66	11.50
6			1.10				.60	8.24	4.80	2.14	1.40	9.94
7			1.10				.60	8.24	4.80	2.14	1.40	9.94
8	1.10			.60				8.24	4.80	2.14	1.40	9.94
9		1.5		.60				8.24	4.80	2.14	1.40	10.34
10				.60				8.24	4.80	2.14	1.40	8.84
11			1.10	.60				8.24	4.80	2.14	1.40	9.94
12			1.10		.60			8.24	4.80	2.14	1.40	9.94
13			1.10				.60	8.55	4.73	2.22	1.31	10.25
14			1.10				.60	8.55	4.73	2.22	1.31	10.25
15	1.10			.60				8.55	4.73	2.22	1.31	10.25
16				.60				8.55	4.73	2.22	1.31	9.15
17				.60				8.55	4.73	2.22	1.31	9.15
18			1.10	.60				8.55	4.73	2.22	1.31	10.25
19			1.10		.60			10.50	5.99	2.73	1.78	12.20
20			1.10				.60	10.50	5.99	2.73	1.78	12.20
21			1.10				.60	10.20	5.81	2.65	1.74	11.90
22	1.10			.60				10.20	5.81	2.65	1.74	11.90
23		1.5		.60				10.20	5.81	2.65	1.74	12.30
24				.60				9.80	5.58	2.55	1.66	10.40
25			1.10	.60				9.80	5.58	2.55	1.66	11.50
26			1.10		.60			9.80	5.58	2.55	1.66	11.50
27			1.10				.60	9.80	5.58	2.55	1.66	11.50
28			1.10				.60	8.24	4.80	2.14	1.40	9.94
29	1.10			.60				8.24	4.80	2.14	1.40	9.94
30		1.5		.60				8.24	4.80	2.14	1.40	10.34
Total cfs	5.50	6.0	17.60	10.8	2.40		4.80	273.5	156.01	71.08	45.58	320.60

DAILY DISTRIBUTION OF BRUSH CREEK FOR THE MONTH OF OCTOBER 1963

* Records calculated from U.S.G.S. flow records due to the Burns Bench Divider Weir being dammed up by beaver work.

Date	Marvin Jackson	Bert Hatch	Shiner Bros.	Howard Ainge	Sam Sessions	Sunshine Canal	Leon Ainge Martin Evans Murrays	Burns Bench Divider *	Burns Bench Canal *	Burton Ditch *	Murray Ditch *	Total
1				.60				14.0	7.98	3.64	2.38	14.60
2			1.27	.60				14.0	7.98	3.64	2.38	15.87
3			1.27		.68			14.0	7.98	3.64	2.38	15.95
4			1.27				.68	14.0	7.98	3.64	2.38	15.95
5			1.27				.68	20.0	11.40	5.20	3.40	21.95
6	1.27			.68				20.0	11.40	5.20	3.40	21.95
7		1.5		.68				15.0	8.55	3.90	2.55	17.18
8				.68				14.0	7.98	3.64	2.38	14.68
9			1.27	.68				14.0	7.98	3.64	2.38	15.95
10			1.27		.68			12.0	6.84	3.12	2.04	13.95
11			1.27				.68	12.0	6.84	3.12	2.04	13.95
12			1.27				.68	12.0	6.84	3.12	2.04	13.95
13	1.27			.68				12.0	6.84	3.12	2.04	13.95
14		1.5		.68				12.0	6.84	3.12	2.04	14.18
15				.68				12.0	6.84	3.12	2.04	12.68
16	END OF IRRIGATION SEASON											
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Total cfs	2.54	3.0	10.16	5.76	1.36		2.72	211.0	120.29	54.86	35.87	236.54

ASSESSMENT

BASIS FOR COMPUTING ASSESSMENTS FOR THE BRUSH CREEK DISTRIBUTION SYSTEM

It is believed that the following information will be of value to the water users of the Brush Creek Distribution System, by enabling those who wish to check their annual assessment when their water rights and water deliveres are known.

All assessments are made on a percentage basis, as set forth in the 4th Judicial District Court Order of 1959, Civil Order No 12, and as agreen to by the Water users in the 1960 Water users meeting.

I. FORMULA:

$$A_t = A_r + A_s$$

A. Regular Assessments

$$A_r = \frac{A_t}{1.15}$$

1. $A_i = A_r \times P$

B. Special Assessments for Ashley Valley Reservoir Co., and Little Brush Creek water users.

$$A_s = 0.10\ A_r + 0.05\ A_r$$

1. STORAGE (Ashley Valley Res. Co.)
   (a) A . . . $0.10\ A_r$
   (b) A_i . . $0.10\ A_r$

2. LITTLE BRUSH CREEK Assessment
   (a) A . . . $0.05\ A_r$
   (b) A_i . . $\frac{W_a}{\Sigma W_a} \times 0.05\ A_r$

WHERE:

A_t . . .	Total Assessment in dollars.
A_r . . .	Assessment of regular users in dollars
A_s . . .	Special assessment in dollars.
A_i . . .	Individual Assessment
P . . .	% of assessment to be paid by the regular users as set forth in Civil Order # 12
W_a . . .	Individual acreage of Little Brush Creek water users.
A . . .	Assessment to be levied in dollars.

BASIC DATA FOR COMPUTING ASSESSMENTS

A. Civil Order # 12

% of regular assessment	
Water Users	Percentage
Burns Bench Irr. Co.	40
Burton Ditch Co.	17
Murray Ditch Co.	12
Upper Brush Creek	11
Sunshine Canal	20

B. TOTAL ASSESSMENT IN DOLLARS AS ADOPTED BY THE WATER USERS EACH YEAR AT THEIR ANNUAL MEETING.

C. SPECIAL ASSESSMENTS AND THE AMOUNT TO BE PAID BY EACH SPECIAL ASSESSMENT USER, AS ADOPTED BY THE WATER USERS.

Ashley Valley Res. Co.	10% of regular assessment
Little Brush Creek users	5% of regular assessment

D. ACREAGE IRRIGATED FROM LITTLE BRUSH CREEK 2/

Water User	Acreage
Taylor	75
Searles	72
Evans	85
Colton	17
Total	249

1/ Prepared by Donald C. Norseth, Distribution Engineer, and Frank Reese, Controller, Utah State Engineer's Office, December 1961.

2/ To be adjusted in accordance with final decree adjudicating the water of Brush Creek and its tributaries.

July 18, 1963

M E M O R A N D U M

SUBJECT: Little Brush Creek

BY: Donald C. Norseth, Distribution Engineer

* * * * * * * * * * *

The Little Brush Creek watershed lies in the Uintah Mountains in the Northeastern Corner of Utah. Little Brush Creek trends in a southeasterly direction down the steep slopes of the Uintah Mountains. The headwaters are at elevation between 10,000 and 12,000 feet while its conlfuence with Brush Creek is at an elevation between 5,000 and 6,000 feet.

Little Brush Creek's flow is controlled at two significant points: East Park Reservoir and the sinks. Below the sinks, natural flow arises and this section of the creek is subject to the normal physical conditions governing stream flow in this area.

Distribution of Brush Creek requires the regulation of Little Brush Creek and the proper dispersing of water to the natural flow users: Taylor, Searles, Evans, and Colton. In addition, the regulation of the Sunshine diversion around the sinks and the passing of this flow past Little Brush Creek diversions to the confluence with Brush Creek and down Brush Creek to the Sunshine Ranches Diversion. Water diverted around the sinks, consists of releases from East Park Reservoir, plus the natural flow of Little Brush Creek above the sinks. This is considered as salvage water; i.e. water not available to natural flow users because of its loss in sinks.

This problem has been studied each year since distribution was started. Temporary arrangements have been worked out. However, in 1962, friction has created a problem whereby we now need direction as to the distribution of these waters.

DCN/wh

The following table indicates the measurements obtained by the water commissioner of Little Brush Creek natural flow.

Table of Water Measurements of Little Brush Creek natural flow, 1962 & 1963

Diversion or place of measurement	FLOW			Total natural flow	Remarks
1962				CFS.	
9-33	Taylor	Searles	Evans	2.80	Return flow is factor but cannot be measured.
	0.64	1.66	0.50		
9-30	0.64	1.57	0.70	2.91	
10-7	0.64	2.68	0.50	3.82	
10-4	0.58	2.43	0.50	3.51	
1963					
6-17	0.29	1.50	1.62	3.41	
AVERAGE				3.29	

From the above measurement and our experience in distributing these waters, it would appear our recommendation for distribution is as follows:

Little Brush Creek Distribution Schedule

Total Flow		Diversion Allotment				
Salvage 2/	Natural	Taylor 3/	Searles 3/	Evans 3/	Colton 3/	Sunshine Canal 1/
Salvage	Cfs. 3.29	1.36/3.71	1:15/3.71	1.20/3.71	0.34 4/	All Salvage water

1/ Diversion from Brush Creek
2/ Salvage water minus transmission loss in Little Brush Creek and Brush Creek
3/ Flow rights obtained from adjudication department.
4/ As allotted under Certificate #2232 and not calculated in division of natural flow as use is not made of this right.

UNITED STATES DEPARTMENT OF THE INTERIOR--GEOLOGICAL SURVEY--WATER RESOURSES DIV.

Sta. No 9-2356.00

Daily discharge, in second feet, of Pot Creek above diversions, near Vernal, Utah, for year ending Sept. 30, 1963

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0		*1.4	7.4	0.4			
2					0		.5	*4.4	.4			
3					0		.6	3.5	.5			
4					0		.6	3.5	*.5			
5					0		1.0	3.5	.3			
6							1.5	3.6	.2			
7					.4		1.7	3.6	.2			
8							2.0	3.5	.1			
9							2.0	3.5	.1			
10							2.8	3.5	.2			
11						a0.1	1.5	3.4	.2			
12							*1.0	3.1	0			
13							.9	3.0	0			
14							1.1	2.7	0			
15							1.6	2.3	0			
16							1.3	2.2	0			
17							1.1	2.1	0			
18							1.1	1.8	.1			
19					.1		.9	1.8	0			
20							1.2	1.8	.4			
21							1.5	1.7	1.7			
22						a .4	1.0	2.0				
23						b5.0	1.1	2.0	0			
24						b5.0	1.2	*2.3	0			
25						a2.0	1.5	1.8	0			
26					**	*b1.5	4.1	1.5	0			
27						b3.0	7.4	1.1	*0			
28						10.0	5.0	.9	0			
29						7.6	5.2	.8	0			
30						3.6	6.7	.5	0			
31						2.2		.5				
	0		0		3.5		60.5		5.5		0	
		0		0		42.4		79.3		0		0
Mean	0	0	0	0	0.12	1.37	2.02	2.56	0.18	0	0	0
Acre Feet	0	0	0	0	6.9	84	120	157	11	0	0	0

Max. discharge 26 cfs, Mar. 28

*Discharge measurement made on this day

** Field estimate made on this day.

a No gage-height record (stage-discharge relation affected by ice during Most of period).

b Stage-discharge relation affected by ice.

Year Mean 0.52 Acre Feet .9

December 6, 1963

SUMMARY OF DISTRIBUTION ON POT CREEK FOR IRRIGATION SEASON 1963

My first visit was on April 6, 1963. Pot Creek was running 1.5 c.f.s. There was no water running in Beeler Creek at the road crossing. The Matt Warner Reservoir showed a level of 101.6 feet. The Crouse Reservoir level was 13.25 feet.

U.S.G.S. Records for April and May show the daily flow average for Pot Creek. Copies of these records will be attached to this summary.

Due to the fact that less than 5.0 c.f.s. came into the Reservoir on most days during April and May no daily releases were made until a backlog was built up. This system of releases presents problems but to date no better way of handling it has been developed.

Starting on May 5, 1963, I started a release to Bill Allen of his water at the rate of 7.0 c.f.s. This amount was released for 10 days for a total release of 70 c.f.s. or 140 acre feet.

On June 1, I released 1.5 c.f.s. to Joe Calder for irrigation immediately below the Matt Warner Reservoir. This continued until June 9 at 5:00 P.M. The release dropped the Reservoir gage height from 101.45 to 101.2.

On June 24, I started the release of the remainder of Bill Allen's water from out of the Matt Warner. Daily release schedule shows how this water was released. A total of 99.09 acre feet was arrived at after deducting 10% seepage loss from the total inflow and cutting of the 14.2 acre feet that came into the Reservoir. This was done due to the fact that it flowed into the Reservoir in such a small quantity that it is doubtful it would have reached the Reservoir dam without being lost through seepage and evaporation.

Of the 279.6 acre feet that came into the Reservoir up to the end of May 3, Calder had a claim to 15.4 acre feet and Colorado Users had claim to 4.8 acre feet, the remainder of 259.4 acre feet minue the losses mentioned was delivered past the Matt Warner Reservoir to Bill Allen. This total amounted to 239.09 acre feet.

No attempt was made to get the 4.8 acre feet to Colorado since it would have been wasted completely.

With the conpletion of the Bill Allen releases distribution was fairly well completed. Most of the water in the Matt Warner Reservoir was hold over water from 1963. Mr. Zelph Calder was permitted to release the water after July 10 as he needed it, either for irrigation or stock water down stream.

By the end of November, the Matt Warner Reservoir had been drained and used downstream by Mr. Calder. He removed a bumper crop of Rainbow trout from the emptied Reservoir.

While the 1963 spring run-off was limited, we may look foward to a better water year in 1964. Regardless of how much water becomes available for distribution in 1964, several suggestions must be made to help distribution problems.

1. An accurate rating must be made on the cement lip immediately below the Matt Warner Reservoir or a suitable measurement device should be installed.

2. Investigate the possibility of Mr. Calder's building a by-pass ditch from Pot Creek above the Matt Warner Reservoir to below it. This project has been suggested by Mr. Calder in order that the water which should go to Bill Allen and Colorado Users may do so at the time it comes into the creek.

3. More efficient use should be made of the water diverted for irrigation. During the past summer as in the past, waste water has been abundant, running down and across the road in several locations.

4. Adequate measuring devices and diversion works should be installed at all diversion points below the Matt Warner Reservoir.

5. Additional studies should be made on the Matt Warner Reservoir to determine how much water is actually lost by seepage and evaporation during storage. This was a question controveral point during the releases made in 1963.

MAY WATER, released to Bill Allen
During June, out of Matt Warner Reservoir

Date Release started June 24 at 12:00 noon

Date	Reading	CFS	Ac. Ft.
June 24 - 12:00 noon	.93	6.13	6.13
25 -	.93	6.13	12.26
26 - 6:00 P.M.	.93	6.13	9.20
26 - 6:00 P.M. to 12:00 Midnight	.70	4.00	2.00
27 -	.70	4.00	8.00
28 -	.70	4.00	8.00
29 - 12:00 Midnight to 10:00 A.M.	.70	4.00	3.30
29 - 10:00 A.M. to 12:00 Midnight	.93	6.13	7.14
30 -	.93	6.13	12.26
July 1 -	.93	6.13	12.26
2 -	.92	6.02	12.04
3 -	.92	6.02	6.50
		Total	99.09 Ac. Ft

COPY OF U. S. G. S. RECORDS ON POT CREEK

Day	April	May
1	1.4 *	7.4 *
2	.5	4.4
3	.6	3.5
4	.6	3.5
5	1.0	3.5
6	1.5	3.6
7	1.7	3.6
8	2.0	3.5
9	2.0	3.5
10	2.8	3.5
11	1.5	3.4
12	1.0	3.1
13	.9	3.0
14	1.1	2.7
15	1.6	2.3
16	1.3	2.2
17	1.1	2.1
18	1.1	1.8
19	.9	1.8
20	1.2	1.8
21	1.5	1.7
22	1.0	2.0
23	1.1	2.0
24	1.2	2.3
25	1.5	1.8
26	4.1	1.5
27	7.4	1.1
28	5.0	0.9
29	5.2	0.8
30	6.7	0.5
31		0.5
	60.5 *	78.9 *

* Preliminary records subject to revision.